Measurement of Hydraulic Diffusivity of Wedge-Shaped Aquifers Drained by Streams

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By R. W. STALLMAN and I. S. PAPADOPULOS

ABSTRACT

Theoretical response curves are presented in graphical and tabular form relating (1) water-level changes caused by dissipation of recharge from unconfined wedge-shaped aquifers to streams to (2) Tt/r^2S, from which T/S can be computed.

INTRODUCTION

Many of the unconfined aquifers in the United States are drained by perennial streams. Such aquifers generally receive recharge from precipitation, part of which flows laterally to streams and part of which may be lost directly from the zone of saturation by evapotranspiration. Aquifers hydraulically bounded by streams, recharged by relatively infrequent releases of water through the unsaturated zone, and isolated from the vagaries of evapotranspiration by a thick unsaturated zone are ideally susceptible to analysis for hydraulic diffusivity—the ratio T/S, where T is the transmissibility and S is the coefficient of storage of the aquifer.

Study of the effects of large-scale development of ground water requires estimates of values of T on a large scale. Pumping tests, using wells or well fields to provide a known stimulus to ground-water movement, are most generally used for determining T and S of aquifers. (See Ferris and others, 1962, for example.) However, pumping wells can sample only a small segment of the aquifer, and inconsistencies in T and S as observed from pumping tests may therefore reflect local heterogeneity and may not provide reliable values of either coefficient on an areal basis. The senior author had the problem of determining values of T and S on a large scale in connection with fieldwork done in Portage County, Wis. (Weeks and others, 1964).

In the vicinity of the Little Plover River, Portage County, Wis., an unconfined aquifer of outwash extends to a depth of about 80 feet below the land surface. In most years the principal source of recharge is the water released from the unsaturated zone by the spring thaw, except during summers having above-average precipitation. Loss of water from the aquifer by evapotranspiration seems to be negligible. The aquifer is drained by streams in the area.

The physical system identified here is analogous to the conditions of a heat-flow problem solved by Jaeger (1942). Jaeger's solution (1942) was applied specifically to heat flow in a split log, or the sector of a circle, where the temperature is changed on the surface of the log or perimeter of the sector of a circle at time $t=0$. Flow of heat along the longitudinal axis of the log, or perpendicular to the surface of the circle, is assumed to be negligible. Jaeger's analysis of the problem resulted in an integral equation. Numerical values of Jaeger's integral equation were obtained by Papadopulos (1963) for use in analyzing data from three observation wells in Wisconsin (Weeks, 1964).

The close fit between observed and theoretical water-level changes encouraged development of a nearly complete set of response curves from Jaeger's work. Numerical evaluation of Jaeger's integral equation required excessively lengthy manual computation; consequently, the computing work was assigned to the U.S. Geological Survey's Computation Unit, Washington, D.C. All the response curves presented in this paper were developed on digital equipment by that unit, under the direction of Walter Anderson.

Ground-water levels are observed in a continuing program by the Ground Water Branch, U.S. Geological Survey, in several thousand wells throughout the United States. Data from wells in unconfined aquifers, where the hydrologic controls on the aquifer are as outlined above, can be analyzed for T/S by means of the response curves presented in this report.

THEORY AND FIELD DATA

A hypothetical distribution of streams is shown on figure 1. Each stream segment drains part of an unconfined aquifer underlying the area. Observation well A (bottom half of fig. 1) is near the confluence of two tributaries. The tributaries form a wedge having an angle of θ_0 which equals 75°, approximately. The wedge shape and location are drawn as an approximation of the course of the meandering streams. The angle between one side of the wedge, and a line through the apex of the wedge and observation well is noted as θ and equals 15°. Radius, r, to the observation well

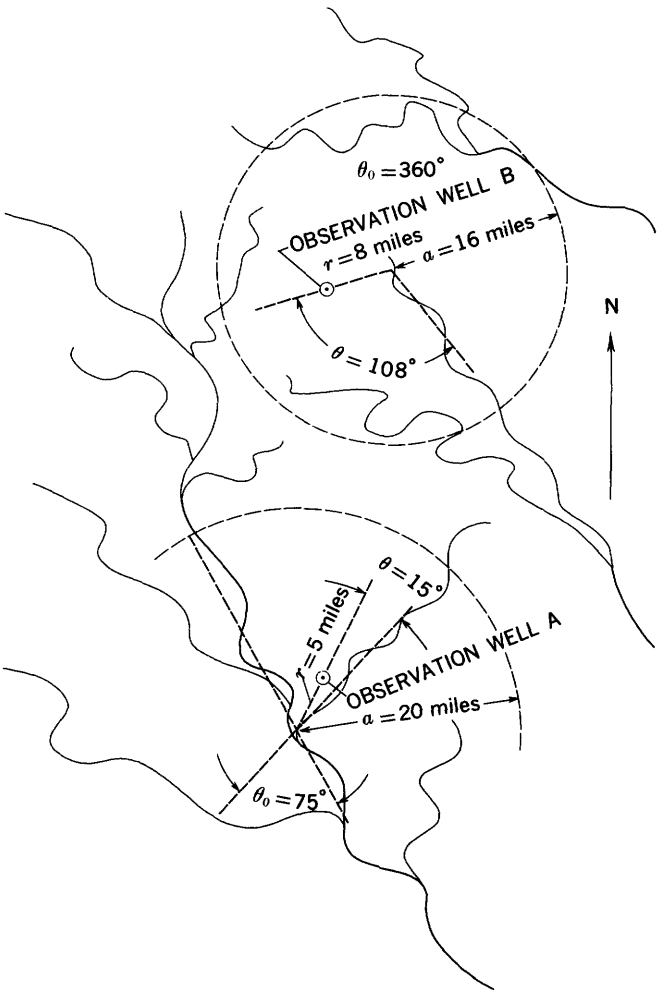

FIGURE 1.—Surface drainage pattern, showing location of observation wells that penetrate an unconfined aquifer.

from the apex of the wedge is approximately 5 miles. Radius a is the distance from the apex of the wedge to a circumference along which water levels are presumed constant. In actuality, around well A the distance a should be extended beyond 20 miles to the tributaries forming an approximate closure on the north. However, as will be seen, the distance a can be taken as infinity without introducing a significant error in the computed T/S of the area around A.

A hydrograph from well A is shown on figure 2. The decline in water level results from continued flow to the streams between January and about mid-May. During the latter part of May the aquifer is recharged by water released during the spring thaw, and the water level in well A rises sharply by an amount s_0. At the time marked $t=0$, the recharge is effectively complete and water levels begin to decline in response to discharge to the streams. The difference between the prerecharge water-level trend and observed water levels is identified as s on figure 2. The time reference for s is $t=0$, when recharge becomes negligible. Water-level altitudes in all streams in the area are assumed constant, as an approximation. Thus the peaks in stream stage caused by overland runoff are assumed to have negligible effect on ground-water levels.

The mathematical solution to the flow problem outlined with the aid of figures 1 and 2 is given by Jaeger (1942, p. 532, equation 16). Jaeger's result can be stated, for simplicity, in the following form:

$$\frac{s}{s_0} = \mathbf{F}(\theta_0, \theta/\theta_0, r/a, Tt/r^2S) \qquad (1)$$

where T is the transmissibility of the aquifer, S is the specific yield, t is time measured from $t=0$ on figure 2 at which s is observed, and r is as defined on figure 1. Note that s/s_0, Tt/r^2S, r/a, and θ/θ_0 are nondimensional. If t is in days and r is in feet, the units of T are square feet per day. Other notation is defined also on figure 1. The function s/s_0 versus Tt/r^2S of equation 1 was evaluated for selected values of θ_0, θ/θ_0, and r/a by a digital computer.

USE OF RESPONSE CURVES

Water-level changes in the aquifer observed at well A due to lateral flow of ground water from the wedge area to the streams are given as s/s_0 versus log t on figure 3. Figure 3 is similar to the graphs of drawdown versus the log of time commonly used for analysis of pumping-test data.

Curves of s/s_0 versus Tt/r^2S have been so compiled on plates 1–120 that each figure includes all available curves for a particular value of θ_0 and of θ/θ_0. (The base sheet used for plotting was Codex No. 31,227, having 20 lines per inch, and each log cycle is $1\frac{13}{16}$ inches wide.) Thus, to find the appropriate type curve for a given observation well it is necessary to first determine θ_0 and θ/θ_0. From figure 1, for well A $\theta_0=75°$ and $\theta/\theta_0=15/75=0.2$. Response curves for $\theta_0=75°$ and $\theta/\theta_0=0.2$ are on plate 34.

The curve for $r/a=5$ miles/20 miles$=0.25$ is located on plate 34, and is then matched with the data curve to solve for Tt/r^2S at a particular value of time. Matching is accomplished by superimposing the data plot, figure 3, on the response curve and keeping the s/s_0 axes coincident. The data plot is moved from side to side until a position is found at which the data points overlie the theoretical response curve for $\theta_0=75°$, $\theta/\theta_0=0.2$, and $r/a=0.25$. Any convenient value of Tt/r^2S is selected on the axes of the response curve and t is read at the corresponding point on the data curve. An example match point for figure 3 is $Tt/r^2S=1.00$

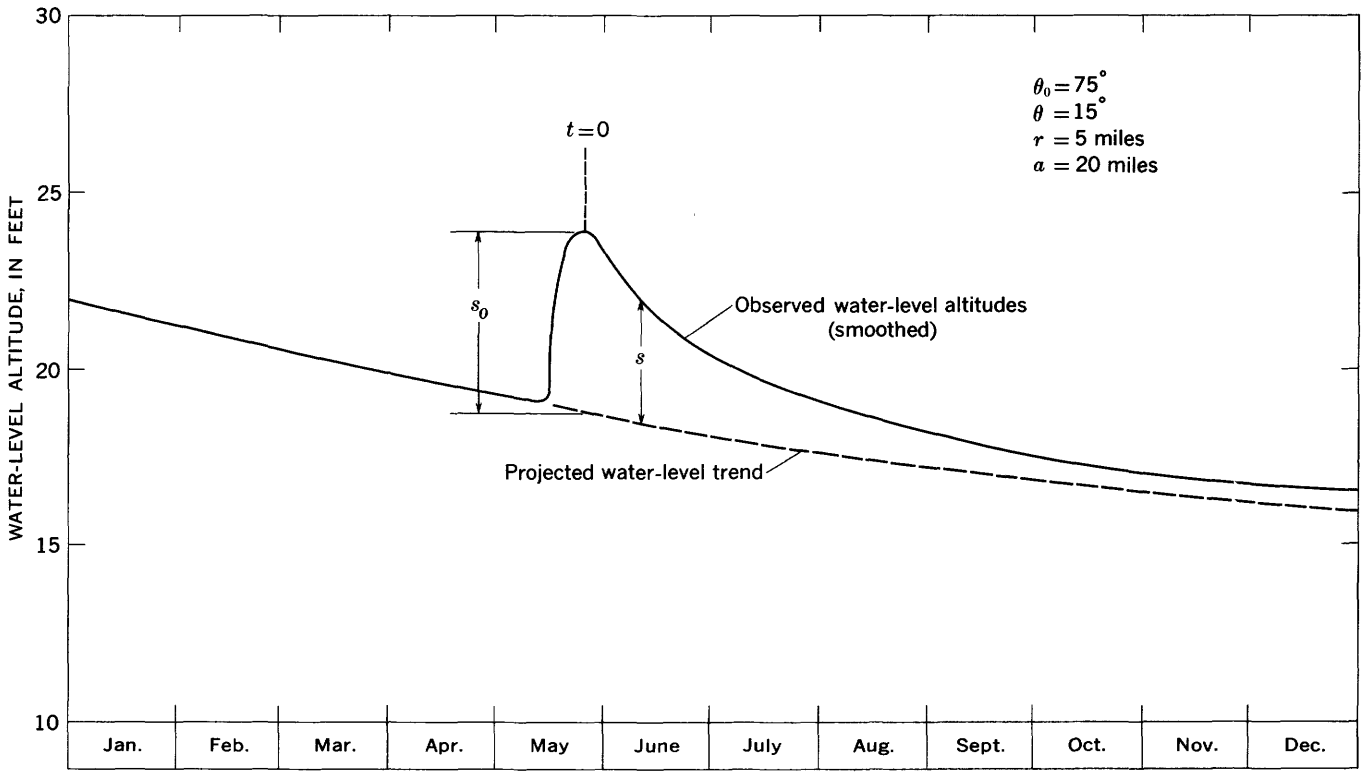

FIGURE 2.—Example hydrograph from well A of figure 1, showing observed and projected water-level altitudes.

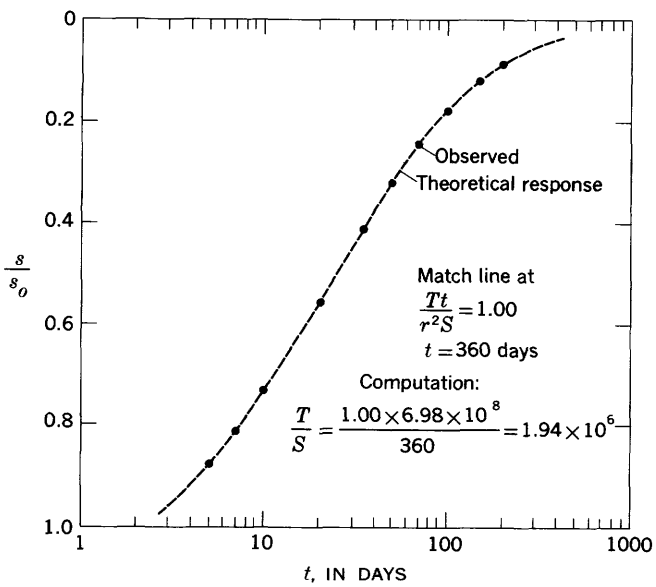

FIGURE 3.—s/s_0 versus time taken from hydrograph of well A (see fig. 2), showing computation of T/S.

and t=360 days. The computation for T/S is given on figure 3. If S equals 0.2,

$T = 0.2 \times 1.94 \times 10^6 = 4 \times 10^5$ ft^2 per day, or

$4 \times 10^5 \times 7.48 = 3 \times 10^6$ gallons per day per foot.

As r/a approaches zero, the response curves form an envelope on the lower right of many of plates 1–120. The envelope represents aquifer response for $r/a=0$, or $a=\infty$. For observation well A, where $r/a=0.25$, response is like that where $a=\infty$ until s/s_0 is less than about 0.1. Therefore the position assumed for radius a around observation well A is immaterial for most of the useful data from figure 2. Increasing a to a value greater than 20 miles would not affect the value of T/S computed on figure 3.

Observation well B (fig. 1) is near the headwaters of a stream. Such a situation can be viewed as a region of flow to a wedge of slightly less than 360°, the apex of the wedge being at the upper end of the stream. Values of the pertinent variables from figure 1 are as follows: $\theta_0=360°$, $\theta/\theta_0=108/360=0.30$, and $r/a=0.5$. The response curve appropriate for analyzing data from B is on plate 116. Note that the value of r/a has a greater effect on response for large values than for small values of θ_0.

Caution must be used in applying the response curves. In the example hydrograph given on figure 2 it is difficult to project reliably the water-level trend much beyond July. Thus, values of s/s_0 from only about 50 days after cessation of recharge can be considered useful. Generally field data will be more difficult to interpret than figure 2, because observed water levels generally

do not form such a smooth trend as shown. Also, consider the response of well A of figure 1, assuming that $T/S=2\times10^4$ ft^2 per day. Thus,

$$\frac{Tt}{r^2S}=\frac{2\times10^4}{6.98\times10^8}\,t=2.86\times10^{-5}\,t.$$

For t of about 1 year, Tt/r^2S is about 1×10^{-2}.

Therefore for t less than about 1 year, s/s_0 varies between 1.0 and 0.9 if $T/S=2\times10^4$, $\theta_0=75°$, $\theta/\theta_0=0.2$, and $r/a=0.25$. Obviously, then, stream control around well A in an aquifer having T/S of about 2×10^4 ft^2 per day could not cause the drawdowns indicated on the hydrograph of figure 2. Ground-water outflow in the area is therefore probably controlled significantly by other hydrologic factors than stream location, such as recharge conditions different than those postulated in construction of the response curves. Comparison of the response curves with observed drawdowns can be used in this manner to aid in the identification of the principal hydrologic controls on ground water.

Computed values of $1-(s/s_0)$ versus Tt/r^2S, from which plates 1–120 were prepared, are given in the tables on pages 6–50. Two numbers are given for each row in the column marked Tt/r^2S. The second is the exponent of 10 to be applied. The complete value of Tt/r^2S is obtained by multiplying the first number shown by 10 to the power indicated.

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TABLES OF VALUES OF NONDIMENSIONAL RESPONSE OF GROUND WATER

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$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 1]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.15	7.5, −2	0.983	0.70	5.6, −2	0.983
				4.2, −2	.968
.20	7.5, −2	.983		3.2, −2	.948
	5.6, −2	.971		2.4, −2	.924
	4.2, −2	.956		1.8, −2	.900
	3.2, −2	.938		1.3, −2	.874
	2.4, −2	.917		1.0, −2	.854
				7.5, −3	.831
.25	7.5, −2	.983		5.6, −3	.805
.30	7.5, −2	.983		4.2, −3	.775
.35	7.5, −2	.983			
.40	7.5, −2	.983	.80	4.2, −2	.983
.45	7.5, −2	.983		3.2, −2	.967
				2.4, −2	.946
.50	7.5, −2	.983		1.8, −2	.922
	5.6, −2	.971		1.3, −2	.893
	4.2, −2	.956		1.0, −2	.868
				7.5, −3	.840
.60	7.5, −2	.987		5.6, −3	.809
	5.6, −2	.975		4.2, −3	.777
	4.2, −2	.958		3.2, −3	.744
	3.2, −2	.939		2.4, −3	.706
	2.4, −2	.918		1.8, −3	.663
	1.8, −2	.896		1.3, −3	.608
	1.3, −2	.873			

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 2]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.3, −1	0.989	0.60	1.8, −2	0.795
				1.3, −2	.750
.15	1.3, −1	.989			
	1.0, −1	.981	.70	7.5, −2	.987
	7.5, −2	.966		5.6, −2	.967
	5.6, −2	.943		4.2, −2	.936
	4.2, −2	.912		3.2, −2	.897
				2.4, −2	.850
.20	1.3, −1	.989		1.8, −2	.803
.25	1.3, −1	.989		1.3, −2	.753
.30	1.3, −1	.989		1.0, −2	.714
.35	1.3, −1	.989		7.5, −3	.670
				5.6, −3	.621
.40	1.3, −1	.990		4.2, −3	.568
	1.0, −1	.981		3.2, −3	.513
.45	1.0, −1	.982	.80	5.6, −2	.986
				4.2, −2	.965
.50	1.0, −1	.983		3.2, −2	.936
	7.5, −2	.967		2.4, −2	.894
	5.6, −2	.943		1.8, −2	.846
	4.2, −2	.912		1.3, −2	.788
	3.2, −2	.877		1.0, −2	.741
				7.5, −3	.686
.60	1.0, −1	.990		5.6, −3	.630
	7.5, −2	.975		4.2, −3	.571
	5.6, −2	.950		3.2, −3	.514
	4.2, −2	.917		2.4, −3	.450
	3.2, −2	.879		1.8, −3	.383
	2.4, −2	.837		1.3, −3	.305

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 3]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.3, −1	0.984	0.60	1.0, −1	0.985
				7.5, −2	.963
.15	1.3, −1	.984		5.6, −2	.927
	1.0, −1	.972		4.2, −2	.878
	7.5, −2	.950		3.2, −2	.823
	5.6, −2	.916		2.4, −2	.761
	4.2, −2	.871		1.8, −2	.700
				1.3, −2	.634
.20	1.3, −1	.984		1.0, −2	.581
.25	1.3, −1	.984			
.30	1.3, −1	.984	.70	7.5, −2	.981
.35	1.3, −1	.984		5.6, −2	.952
.40	1.3, −1	.985		4.2, −2	.906
				3.2, −2	.848
.45	1.3, −1	.986		2.4, −2	.779
	1.0, −1	.973		1.8, −2	.711
				1.3, −2	.638
.50	1.3, −1	.989		1.0, −2	.583
	1.0, −1	.975		7.5, −3	.523
	7.5, −2	.952		5.6, −3	.459
	5.6, −2	.917		4.2, −3	.392
	4.2, −2	.871		3.2, −3	.327
	3.2, −2	.819			
	2.4, −2	.760			

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.80	5.6, −2	0.979	0.80	7.5, −3	0.547
	4.2, −2	.949		5.6, −3	.471
	3.2, −2	.905		4.2, −3	.397
	2.4, −2	.844		3.2, −3	.328
	1.8, −2	.774		2.4, −3	.258
	1.3, −2	.690		1.8, −3	.191
	1.0, −2	.622		1.3, −3	.124

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 4]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.3, −1	0.979	0.60	1.8, −2	0.612
				1.3, −2	.528
.15	1.3, −1	.979		1.0, −2	.464
	1.0, −1	.963			
	7.5, −2	.935	.70	7.5, −2	.975
	5.6, −2	.891		5.6, −2	.938
	4.2, −2	.833		4.2, −2	.878
				3.2, −2	.803
.20	1.3, −1	.979		2.4, −2	.714
.25	1.3, −1	.979		1.8, −2	.626
.30	1.3, −1	.979		1.3, −2	.534
.35	1.3, −1	.980		1.0, −2	.466
.40	1.3, −1	.980		7.5, −3	.395
				5.6, −3	.323
.45	1.3, −1	.982		4.2, −3	.254
	1.0, −1	.965		3.2, −3	.191
	7.5, −2	.935			
			.80	5.6, −2	.973
.50	1.3, −1	.985		4.2, −2	.934
	1.0, −1	.968		3.2, −2	.877
	7.5, −2	.938		2.4, −2	.798
	5.6, −2	.892		1.8, −2	.708
	4.2, −2	.833		1.3, −2	.601
	3.2, −2	.766		1.0, −2	.515
	2.4, −2	.689		7.5, −3	.425
				5.6, −3	.338
.60	1.0, −1	.981		4.2, −3	.260
	7.5, −2	.953		3.2, −3	.193
	5.6, −2	.905		2.4, −3	.132
	4.2, −2	.841		1.8, −3	.082
	3.2, −2	.770		1.3, −3	.040
	2.4, −2	.691			

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 5]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.8, −1	0.989	0.60	2.4, −2	0.628
	1.3, −1	.975		1.8, −2	.534
	1.0, −1	.956		1.3, −2	.436
				1.0, −2	.363
.15	1.8, −1	.989			
.20	1.8, −1	.989	.70	7.5, −2	.970
.25	1.8, −1	.989		5.6, −2	.925
.30	1.8, −1	.989		4.2, −2	.853
				3.2, −2	.763
.35	1.8, −1	.989		2.4, −2	.657
	1.3, −1	.975		1.8, −2	.551
				1.3, −2	.442
.40	1.3, −1	.976		1.0, −2	.365
				7.5, −3	.289
.45	1.3, −1	.978		5.6, −3	.218
	1.0, −1	.958		4.2, −3	.154
	7.5, −2	.922		3.2, −3	.103
.50	1.3, −1	.982	.80	5.6, −2	.967
	1.0, −1	.962		4.2, −2	.921
	7.5, −2	.925		3.2, −2	.852
	5.6, −2	.870		2.4, −2	.758
	4.2, −2	.799		1.8, −2	.649
	3.2, −2	.719		1.3, −2	.522
	2.4, −2	.626		1.0, −2	.424
				7.5, −3	.324
.60	1.0, −1	.977		5.6, −3	.235
	7.5, −2	.943		4.2, −3	.161
	5.6, −2	.886		3.2, −3	.105
	4.2, −2	.809		2.4, −3	.060
	3.2, −2	.724		1.8, −3	.030

$\theta_0=30°$; $\frac{\theta}{\theta_0}=0.30$

[Pl. 6]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.8, −1	0.987	0.25	1.8, −1	0.987
	1.3, −1	.972	.30	1.8, −1	.987
	1.0, −1	.950	.35	1.8, −1	.987
.15	1.8, −1	.987	.40	1.8, −1	.989
.20	1.8, −1	.987		1.3, −1	.973

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
	$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.30$—Continued				
0.45	1.3, −1	0.975	0.70	5.6, −2	0.915
	1.0, −1	.952		4.2, −2	.832
	7.5, −2	.911		3.2, −2	.729
	5.6, −2	.850		2.4, −2	.607
				1.8, −2	.487
.50	1.3, −1	.980		1.3, −2	.365
	1.0, −1	.956		1.0, −2	.282
	7.5, −2	.914		7.5, −3	.205
	5.6, −2	.852		5.6, −3	.140
	4.2, −2	.770		4.2, −3	.088
	3.2, −2	.678		3.2, −3	.051
	2.4, −2	.573			
			.80	7.5, −2	.989
.60	1.0, −1	.973		5.6, −2	.963
	7.5, −2	.935		4.2, −2	.910
	5.6, −2	.870		3.2, −2	.831
	4.2, −2	.782		2.4, −2	.723
	3.2, −2	.684		1.8, −2	.599
	2.4, −2	.575		1.3, −2	.456
	1.8, −2	.468		1.0, −2	.348
	1.3, −2	.358		7.5, −3	.244
	1.0, −2	.280		5.6, −3	.158
				4.2, −3	.095
.70	1.0, −1	.990		3.2, −3	.052
	7.5, −2	.966		2.4, −3	.024

$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.35$

[Pl. 7]

0.10	1.8, −1	0.986	0.60	2.4, −2	0.532
	1.3, −1	.969		1.8, −2	.415
	1.0, −1	.945		1.3, −2	.297
				1.0, −2	.216
.15	1.8, −1	.986			
.20	1.8, −1	.986	.70	1.0, −1	.989
.25	1.8, −1	.986		7.5, −2	.962
.30	1.8, −1	.986		5.6, −2	.906
.35	1.8, −1	.986		4.2, −2	.815
				3.2, −2	.702
.40	1.8, −1	.988		2.4, −2	.568
	1.3, −1	.970		1.8, −2	.435
				1.3, −2	.304
.45	1.3, −1	.973		1.0, −2	.218
	1.0, −1	.947		7.5, −3	.144
	7.5, −2	.902		5.6, −3	.087
	5.6, −2	.835		4.2, −3	.047
.50	1.3, −1	.978	.80	7.5, −2	.988
	1.0, −1	.952		5.6, −2	.959
	7.5, −2	.906		4.2, −2	.900
	5.6, −2	.837		3.2, −2	.814
	4.2, −2	.747		2.4, −2	.695
	3.2, −2	.646		1.8, −2	.559
	2.4, −2	.530		1.3, −2	.403
				1.0, −2	.289
.60	1.0, −1	.971		7.5, −3	.185
	7.5, −2	.928		5.6, −3	.106
	5.6, −2	.856		4.2, −3	.054
	4.2, −2	.760		3.2, −3	.025
	3.2, −2	.652			

$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.40$

[Pl. 8]

0.10	1.8, −1	0.985	0.50	3.2, −2	0.622
	1.3, −1	.967		2.4, −2	.498
	1.0, −1	.941			
			.60	1.3, −1	.989
.15	1.8, −1	.985		1.0, −1	.969
.20	1.8, −1	.985		7.5, −2	.923
.25	1.8, −1	.985		5.6, −2	.847
.30	1.8, −1	.985		4.2, −2	.743
.35	1.8, −1	.985		3.2, −2	.629
				2.4, −2	.500
.40	1.8, −1	.987		1.8, −2	.377
	1.3, −1	.968		1.3, −2	.253
	1.0, −1	.941		1.0, −2	.170
			.70	1.0, −1	.988
.45	1.8, −1	.990		7.5, −2	.960
	1.3, −1	.971		5.6, −2	.900
	1.0, −1	.943		4.2, −2	.803
	7.5, −2	.896		3.2, −2	.682
	5.6, −2	.824		2.4, −2	.539
				1.8, −2	.398
.50	1.3, −1	.976		1.3, −2	.261
	1.0, −1	.949		1.0, −2	.173
	7.5, −2	.899		7.5, −3	.102
	5.6, −2	.826		5.6, −3	.053
	4.2, −2	.730		4.2, −3	.024

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
	$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.40$—Continued				
0.80	7.5, −2	0.987	0.80	1.3, −2	0.365
	5.6, −2	.956		1.0, −2	.248
	4.2, −2	.894		7.5, −3	.145
	3.2, −2	.802		5.6, −3	.073
	2.4, −2	.674		4.2, −3	.031
	1.8, −2	.529			

$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.45$

[Pl. 9]

0.10	1.8, −1	0.984	0.60	5.6, −2	0.841
	1.3, −1	.965		4.2, −2	.734
	1.0, −1	.938		3.2, −2	.614
				2.4, −2	.481
.15	1.8, −1	.984		1.8, −2	.353
.20	1.8, −1	.984		1.3, −2	.226
.25	1.8, −1	.984		1.0, −2	.143
.30	1.8, −1	.984			
.35	1.8, −1	.985	.70	1.0, −1	.988
				7.5, −2	.958
.40	1.8, −1	.986		5.6, −2	.896
	1.3, −1	.967		4.2, −2	.795
	1.0, −1	.939		3.2, −2	.670
				2.4, −2	.521
.45	1.8, −1	.989		1.8, −2	.375
	1.3, −1	.970		1.3, −2	.234
	1.0, −1	.941		1.0, −2	.146
	7.5, −2	.892		7.5, −3	.078
	5.6, −2	.817		5.6, −3	.035
.50	1.3, −1	.975	.80	7.5, −2	.986
	1.0, −1	.947		5.6, −2	.954
	7.5, −2	.895		4.2, −2	.890
	5.6, −2	.819		3.2, −2	.794
	4.2, −2	.720		2.4, −2	.662
	3.2, −2	.607		1.8, −2	.511
	2.4, −2	.479		1.3, −2	.342
				1.0, −2	.223
.60	1.3, −1	.989		7.5, −3	.121
	1.0, −1	.968		5.6, −3	.055
	7.5, −2	.920		4.2, −3	.020

$\theta_0=30°;\ \frac{\theta}{\theta_0}=0.50$

[Pl. 10]

0.10	1.8, −1	0.984	0.60	7.5, −2	0.919
	1.3, −1	.965		5.6, −2	.839
	1.0, −1	.938		4.2, −2	.730
				3.2, −2	.609
.15	1.8, −1	.984		2.4, −2	.475
.20	1.8, −1	.984		1.8, −2	.345
.25	1.8, −1	.984		1.3, −2	.217
.30	1.8, −1	.984		1.0, −2	.134
.35	1.8, −1	.984			
			.70	1.0, −1	.987
.40	1.8, −1	.986		7.5, −2	.958
	1.3, −1	.966		5.6, −2	.894
	1.0, −1	.938		4.2, −2	.792
				3.2, −2	.665
.45	1.8, −1	.989		2.4, −2	.515
	1.3, −1	.969		1.8, −2	.368
	1.0, −1	.940		1.3, −2	.225
	7.5, −2	.890		1.0, −2	.137
	5.6, −2	.815		7.5, −3	.070
				5.6, −3	.029
.50	1.3, −1	.975			
	1.0, −1	.946	.80	7.5, −2	.986
	7.5, −2	.894		5.6, −2	.954
	5.6, −2	.817		4.2, −2	.888
	4.2, −2	.716		3.2, −2	.791
	3.2, −2	.602		2.4, −2	.657
	2.4, −2	.472		1.8, −2	.505
				1.3, −2	.335
				1.0, −2	.214
.60	1.3, −1	.989		7.5, −3	.114
	1.0, −1	.967		5.6, −3	.049

$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.05$

[Pl. 11]

0.10	2.4, −1	0.988	0.30	2.4, −1	0.988
	1.8, −1	.981	.35	2.4, −1	.989
	1.3, −1	.969		1.8, −1	.981
	1.0, −1	.957	.40	1.8, −1	.982
			.45	1.8, −1	.985
.15	2.4, −1	.988		1.3, −1	.971
.20	2.4, −1	.988		1.0, −1	.958
.25	2.4, −1	.988			

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.05$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.50	1.8, −1	0.988	0.70	2.4, −2	0.869
	1.3, −1	.975		1.8, −2	.842
	1.0, −1	.960		1.3, −2	.810
	7.5, −2	.942		1.0, −2	.782
	5.6, −2	.921		7.5, −3	.749
	4.2, −2	.900		5.6, −3	.711
	3.2, −2	.880		4.2, −3	.668
.60	1.3, −1	.985	.80	7.5, −2	.986
	1.0, −1	.971		5.6, −2	.972
	7.5, −2	.951		4.2, −2	.953
	5.6, −2	.928		3.2, −2	.931
	4.2, −2	.904		2.4, −2	.905
	3.2, −2	.882		1.8, −2	.875
	2.4, −2	.859		1.3, −2	.837
	1.8, −2	.836		1.0, −2	.803
	1.3, −2	.808		7.5, −3	.762
				5.6, −3	.717
.70	1.0, −1	.985		4.2, −3	.671
	7.5, −2	.969		3.2, −3	.624
	5.6, −2	.947		2.4, −3	.571
	4.2, −2	.922		1.8, −3	.513
	3.2, −2	.896		1.3, −3	.441

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 12]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	3.2, −1	0.985	0.60	3.2, −2	0.767
.15	3.2, −1	.985		2.4, −2	.724
.20	3.2, −1	.985		1.8, −2	.680
.25	3.2, −1	.985		1.3, −2	.627
.30	3.2, −1	.986		1.0, −2	.579
.35	3.2, −1	.988	.70	1.3, −1	.987
	2.4, −1	.977		1.0, −1	.970
	1.8, −1	.963		7.5, −2	.939
				5.6, −2	.896
.40	2.4, −1	.980		4.2, −2	.846
	1.8, −1	.965		3.2, −2	.796
	1.3, −1	.941		2.4, −2	.743
	1.0, −1	.915		1.8, −2	.691
				1.3, −2	.631
.45	2.4, −1	.985		1.0, −2	.580
	1.8, −1	.969		7.5, −3	.522
	1.3, −1	.944		5.6, −3	.459
	1.0, −1	.917		4.2, −3	.392
	7.5, −2	.883		3.2, −3	.327
.50	2.4, −1	.990	.80	1.0, −1	.989
	1.8, −1	.976		7.5, −2	.972
	1.3, −1	.950		5.6, −2	.944
	1.0, −1	.922		4.2, −2	.906
	7.5, −2	.885		3.2, −2	.864
	5.6, −2	.844		2.4, −2	.813
	4.2, −2	.803		1.8, −2	.756
	3.2, −2	.764		1.3, −2	.683
	2.4, −2	.723		1.0, −2	.620
				7.5, −3	.546
.60	1.8, −1	.989		5.6, −3	.471
	1.3, −1	.969		4.2, −3	.397
	1.0, −1	.943		3.2, −3	.328
	7.5, −2	.904		2.4, −3	.258
	5.6, −2	.858		1.8, −3	.191
	4.2, −2	.811		1.3, −3	.124

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 13]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, −1	0.986	0.45	7.5, −2	0.828
.10	4.2, −1	.986		5.6, −2	.770
.15	4.2, −1	.986			
.20	4.2, −1	.986	.50	2.4, −1	.985
.25	4.2, −1	.987		1.8, −1	.965
				1.3, −1	.926
.30	4.2, −1	.988		1.0, −1	.885
	3.2, −1	.979		7.5, −2	.831
				5.6, −2	.772
.35	3.2, −1	.982		4.2, −2	.711
	2.4, −1	.967		3.2, −2	.655
	1.8, −1	.945		2.4, −2	.596
	1.3, −1	.912			
			.60	1.8, −1	.984
.40	3.2, −1	.986		1.3, −1	.955
	2.4, −1	.971		1.0, −1	.916
	1.8, −1	.948		7.5, −2	.859
	1.3, −1	.913		5.6, −2	.791
	1.0, −1	.876		4.2, −2	.722
				3.2, −2	.660
.45	2.4, −1	.978		2.4, −2	.598
	1.8, −1	.955		1.8, −2	.537
	1.3, −1	.917		1.3, −2	.466
	1.0, −1	.878		1.0, −2	.406

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.70	1.3, −1	0.981	0.80	1.0, −1	0.984
	1.0, −1	.955		7.5, −2	.959
	7.5, −2	.910		5.6, −2	.918
	5.6, −2	.847		4.2, −2	.862
	4.2, −2	.773		3.2, −2	.800
	3.2, −2	.701		2.4, −2	.727
	2.4, −2	.625		1.8, −2	.646
	1.8, −2	.552		1.3, −2	.547
	1.3, −2	.472		1.0, −2	.462
	1.0, −2	.408		7.5, −3	.371
	7.5, −3	.338		5.6, −3	.283
	5.6, −3	.267		4.2, −3	.206
	4.2, −3	.200		3.2, −3	.144
	3.2, −3	.142		2.4, −3	.090
				1.8, −3	.050
				1.3, −3	.021

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 14]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, −1	0.990	0.60	1.8, −1	0.979
	4.2, −1	.982		1.3, −1	.942
				1.0, −1	.891
.10	5.6, −1	.990		7.5, −2	.817
.15	5.6, −1	.990		5.6, −2	.730
				4.2, −2	.641
.20	5.6, −1	.990		3.2, −2	.561
	4.2, −1	.982		2.4, −2	.484
				1.8, −2	.412
.25	4.2, −1	.983		1.3, −2	.332
				1.0, −2	.269
.30	4.2, −1	.985			
	3.2, −1	.973	.70	1.3, −1	.975
	2.4, −1	.955		1.0, −1	.942
				7.5, −2	.883
.35	4.2, −1	.989		5.6, −2	.801
	3.2, −1	.976		4.2, −2	.707
	2.4, −1	.957		3.2, −2	.614
	1.8, −1	.929		2.4, −2	.520
	1.3, −1	.885		1.8, −2	.431
				1.3, −2	.339
.40	3.2, −1	.982		1.0, −2	.271
	2.4, −1	.963		7.5, −3	.202
	1.8, −1	.933		5.6, −3	.139
	1.3, −1	.887		4.2, −3	.088
	1.0, −1	.839		3.2, −3	.051
.45	3.2, −1	.989	.80	1.0, −1	.979
	2.4, −1	.971		7.5, −2	.947
	1.8, −1	.942		5.6, −2	.893
	1.3, −1	.893		4.2, −2	.822
	1.0, −1	.842		3.2, −2	.742
	7.5, −2	.777		2.4, −2	.648
	5.6, −2	.703		1.8, −2	.549
				1.3, −2	.431
.50	2.4, −1	.981		1.0, −2	.337
	1.8, −1	.954		7.5, −3	.241
	1.3, −1	.905		5.6, −3	.158
	1.0, −1	.851		4.2, −3	.095
	7.5, −2	.782		3.2, −3	.052
	5.6, −2	.705		2.4, −3	.024
	4.2, −2	.627			
	3.2, −2	.555			
	2.4, −2	.482			

$\theta_0=45°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 15]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, −1	0.987	0.40	1.3, −1	0.864
	4.2, −1	.979		1.0, −1	.807
				7.5, −2	.730
.10	5.6, −1	.987			
.15	5.6, −1	.987	.45	3.2, −1	.987
.20	5.6, −1	.987		2.4, −1	.966
.25	5.6, −1	.988		1.8, −1	.930
	4.2, −1	.979		1.3, −1	.871
				1.0, −1	.810
.30	4.2, −1	.982		7.5, −2	.732
	3.2, −1	.967		5.6, −2	.643
	2.4, −1	.946			
			.50	2.4, −1	.977
.35	4.2, −1	.986		1.8, −1	.945
	3.2, −1	.972		1.3, −1	.885
	2.4, −1	.948		1.0, −1	.821
	1.8, −1	.915		7.5, −2	.737
	1.3, −1	.862		5.6, −2	.645
				4.2, −2	.552
.40	3.2, −1	.979		3.2, −2	.468
	2.4, −1	.955		2.4, −2	.384
	1.8, −1	.920			

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.25$—Continued			
0.60	1.8, −1	0.975	0.70	1.8, −2	0.330
	1.3, −1	.930		1.3, −2	.235
	1.0, −1	.869		1.0, −2	.170
	7.5, −2	.780		7.5, −3	.112
	5.6, −2	.675		5.6, −3	.065
	4.2, −2	.569		4.2, −3	.033
	3.2, −2	.475			
	2.4, −2	.387	.80	1.0, −1	.975
	1.8, −2	.308		7.5, −2	.936
	1.3, −2	.227		5.6, −2	.872
	1.0, −2	.168		4.2, −2	.786
				3.2, −2	.690
.70	1.3, −1	.970		2.4, −2	.580
	1.0, −1	.931		1.8, −2	.467
	7.5, −2	.860		1.3, −2	.340
	5.6, −2	.761		1.0, −2	.244
	4.2, −2	.648		7.5, −3	.154
	3.2, −2	.538		5.6, −3	.085
	2.4, −2	.428		4.2, −3	.040
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.30$ [Pl. 16]			
0.05	5.6, −1	0.986	0.50	4.2, −2	0.489
.10	5.6, −1	.986		3.2, −2	.394
.15	5.6, −1	.986		2.4, −2	.304
.20	5.6, −1	.986			
			.60	1.8, −1	.972
.25	5.6, −1	.987		1.3, −1	.920
	4.2, −1	.976		1.0, −1	.850
				7.5, −2	.749
.30	4.2, −1	.979		5.6, −2	.628
	3.2, −1	.963		4.2, −2	.508
	2.4, −1	.938		3.2, −2	.403
	1.8, −1	.901		2.4, −2	.306
				1.8, −2	.225
.35	4.2, −1	.984		1.3, −2	.149
	3.2, −1	.968		1.0, −2	.099
	2.4, −1	.941			
	1.8, −1	.903	.70	1.3, −1	.966
	1.3, −1	.842		1.0, −1	.921
				7.5, −2	.840
.40	3.2, −1	.976		5.6, −2	.727
	2.4, −1	.949		4.2, −2	.598
	1.8, −1	.908		3.2, −2	.474
	1.3, −1	.844		2.4, −2	.352
	1.0, −1	.779		1.8, −2	.249
	7.5, −2	.692		1.3, −2	.158
				1.0, −2	.102
.45	3.2, −1	.985		7.5, −3	.057
	2.4, −1	.961		5.6, −3	.027
	1.8, −1	.920			
	1.3, −1	.852	.80	1.0, −1	.971
	1.0, −1	.783		7.5, −2	.927
	7.5, −2	.693		5.6, −2	.853
	5.6, −2	.592		4.2, −2	.755
				3.2, −2	.646
.50	2.4, −1	.974		2.4, −2	.524
	1.8, −1	.937		1.8, −2	.401
	1.3, −1	.869		1.3, −2	.271
	1.0, −1	.795		1.0, −2	.180
	7.5, −2	.700		7.5, −3	.101
	5.6, −2	.594		5.6, −3	.047
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.35$ [Pl. 17]			
0.05	5.6, −1	0.984	0.40	1.8, −1	0.899
.10	5.6, −1	.984		1.3, −1	.829
.15	5.6, −1	.984		1.0, −1	.756
.20	5.6, −1	.984		7.5, −2	.661
.25	5.6, −1	.985	.45	3.2, −1	.983
	4.2, −1	.974		2.4, −1	.957
				1.8, −1	.912
.30	5.6, −1	.989		1.3, −1	.837
	4.2, −1	.977		1.0, −1	.761
	3.2, −1	.959		7.5, −2	.662
	2.4, −1	.931		5.6, −2	.551
	1.8, −1	.891			
			.50	2.4, −1	.971
.35	4.2, −1	.983		1.8, −1	.931
	3.2, −1	.964		1.3, −1	.856
	2.4, −1	.935		1.0, −1	.774
	1.8, −1	.893		7.5, −2	.669
	1.3, −1	.826		5.6, −2	.553
				4.2, −2	.438
.40	4.2, −1	.989		3.2, −2	.336
	3.2, −1	.973		2.4, −2	.241
	2.4, −1	.944			

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.35$—Continued			
0.60	1.8, −1	0.969	0.70	2.4, −2	0.293
	1.3, −1	.912		1.8, −2	.189
	1.0, −1	.835		1.3, −2	.104
	7.5, −2	.723		1.0, −2	.058
	5.6, −2	.591		7.5, −3	.027
	4.2, −2	.459			
	3.2, −2	.345	.80	1.3, −1	.989
	2.4, −2	.244		1.0, −1	.968
	1.8, −2	.163		7.5, −2	.919
	1.3, −2	.095		5.6, −2	.838
	1.0, −2	.055		4.2, −2	.730
				3.2, −2	.611
.70	1.3, −1	.962		2.4, −2	.479
	1.0, −1	.913		1.8, −2	.351
	7.5, −2	.823		1.3, −2	.223
	5.6, −2	.699		1.0, −2	.139
	4.2, −2	.558		7.5, −3	.072
	3.2, −2	.422		5.6, −3	.031
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.40$ [Pl. 18]			
0.05	5.6, −1	0.983	0.50	1.0, −1	0.759
	4.2, −1	.972		7.5, −2	.647
				5.6, −2	.523
.10	5.6, −1	.983		4.2, −2	.401
.15	5.6, −1	.983		3.2, −2	.294
.20	5.6, −1	.983		2.4, −2	.197
.25	5.6, −1	.984	.60	1.8, −1	.967
	4.2, −1	.972		1.3, −1	.906
	3.2, −1	.955		1.0, −1	.824
				7.5, −2	.704
.30	5.6, −1	.988		5.6, −2	.563
	4.2, −1	.975		4.2, −2	.423
	3.2, −1	.956		3.2, −2	.304
	2.4, −1	.927		2.4, −2	.199
	1.8, −1	.884		1.8, −2	.121
				1.3, −2	.060
.35	4.2, −1	.982		1.0, −2	.030
	3.2, −1	.962			
	2.4, −1	.930	.70	1.3, −1	.960
	1.8, −1	.886		1.0, −1	.907
	1.3, −1	.815		7.5, −2	.811
				5.6, −2	.679
.40	4.2, −1	.989		4.2, −2	.528
	3.2, −1	.972		3.2, −2	.385
	2.4, −1	.940		2.4, −2	.252
	1.8, −1	.892		1.8, −2	.147
	1.3, −1	.817		1.3, −2	.069
	1.0, −1	.740		1.0, −2	.033
	7.5, −2	.638			
			.80	1.3, −1	.989
.45	3.2, −1	.982		1.0, −1	.966
	2.4, −1	.954		7.5, −2	.914
	1.8, −1	.906		5.6, −2	.827
	1.3, −1	.826		4.2, −2	.712
	1.0, −1	.745		3.2, −2	.586
	7.5, −2	.639		2.4, −2	.447
	5.6, −2	.521		1.8, −2	.316
				1.3, −2	.192
.50	2.4, −1	.969		1.0, −2	.115
	1.8, −1	.926		7.5, −3	.058
	1.3, −1	.846		5.6, −3	.024
		$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.45$ [Pl. 19]			
0.05	7.5, −1	0.990	0.40	4.2, −1	0.988
.10	7.5, −1	.990		3.2, −1	.970
.15	7.5, −1	.990		2.4, −1	.937
	5.6, −1	.982		1.8, −1	.888
.20	5.6, −1	.983		1.3, −1	.810
				1.0, −1	.730
.25	5.6, −1	.984		7.5, −2	.624
	4.2, −1	.971			
	3.2, −1	.953	.45	3.2, −1	.981
				2.4, −1	.952
.30	5.6, −1	.988		1.8, −1	.902
	4.2, −1	.974		1.3, −1	.820
	3.2, −1	.954		1.0, −1	.735
	2.4, −1	.924		7.5, −2	.626
	1.8, −1	.880		5.6, −2	.502
.35	4.2, −1	.981	.50	3.2, −1	.990
	3.2, −1	.960		2.4, −1	.968
	2.4, −1	.928		1.8, −1	.923
	1.8, −1	.881		1.3, −1	.840
	1.3, −1	.808		1.0, −1	.750

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
	$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.45$—Continued				
0.50	7.5, −2	0.634	0.70	5.6, −2	0.667
	5.6, −2	.505		4.2, −2	.511
	4.2, −2	.379		3.2, −2	.363
	3.2, −2	.269		2.4, −2	.226
	2.4, −2	.170		1.8, −2	.123
				1.3, −2	.051
.60	1.8, −1	.965		1.0, −2	.020
	1.3, −1	.902			
	1.0, −1	.817	.80	1.3, −1	.988
	7.5, −2	.693		1.0, −1	.964
	5.6, −2	.547		7.5, −2	.911
	4.2, −2	.402		5.6, −2	.821
	3.2, −2	.279		4.2, −2	.701
	2.4, −2	.173		3.2, −2	.570
	1.8, −2	.096		2.4, −2	.428
	1.3, −2	.041		1.8, −2	.296
				1.3, −2	.175
.70	1.8, −1	.990		1.0, −2	.103
	1.3, −1	.958		7.5, −3	.051
	1.0, −1	.903		5.6, −3	.021
	7.5, −2	.804			
	$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.50$ [Pl. 20]				
0.05	7.5, −1	0.990	0.50	1.3, −1	0.838
.10	7.5, −1	.990		1.0, −1	.747
.15	7.5, −1	.990		7.5, −2	.629
				5.6, −2	.499
.20	7.5, −1	.990		4.2, −2	.372
	5.6, −1	.982		3.2, −2	.260
				2.4, −2	.161
.25	5.6, −1	.984			
	4.2, −1	.971	.60	2.4, −1	.990
	3.2, −1	.952		1.8, −1	.965
				1.3, −1	.901
.30	5.6, −1	.988		1.0, −1	.815
	4.2, −1	.974		7.5, −2	.689
	3.2, −1	.954		5.6, −2	.541
	2.4, −1	.923		4.2, −2	.394
	1.8, −1	.878		3.2, −2	.270
				2.4, −2	.164
.35	4.2, −1	.981		1.8, −2	.088
	3.2, −1	.960		1.3, −2	.035
	2.4, −1	.927			
	1.8, −1	.880	.70	1.8, −1	.990
	1.3, −1	.805		1.3, −1	.958
				1.0, −1	.902
.40	4.2, −1	.988		7.5, −2	.802
	3.2, −1	.970		5.6, −2	.663
	2.4, −1	.937		4.2, −2	.505
	1.8, −1	.886		3.2, −2	.355
	1.3, −1	.808		2.4, −2	.218
	1.0, −1	.726		1.8, −2	.115
	7.5, −2	.619		1.3, −2	.045
.45	3.2, −1	.981	.80	1.3, −1	.988
	2.4, −1	.951		1.0, −1	.964
	1.8, −1	.901		7.5, −2	.910
	1.3, −1	.818		5.6, −2	.819
	1.0, −1	.732		4.2, −2	.698
	7.5, −2	.621		3.2, −2	.565
	5.6, −2	.496		2.4, −2	.422
				1.8, −2	.289
.50	3.2, −1	.990		1.3, −2	.169
	2.4, −1	.967		1.0, −2	.100
	1.8, −1	.922		7.5, −3	.050
	$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.05$ [Pl. 21]				
0.05	5.6, −1	0.989	0.45	3.2, −1	0.988
	4.2, −1	.984		2.4, −1	.977
				1.8, −1	.961
.10	5.6, −1	.989		1.3, −1	.941
.15	5.6, −1	.989		1.0, −1	.923
.20	5.6, −1	.989		7.5, −2	.902
.25	5.6, −1	.989	.50	2.4, −1	.982
	4.2, −1	.984		1.8, −1	.968
				1.3, −1	.946
.30	4.2, −1	.985		1.0, −1	.926
				7.5, −2	.904
.35	4.2, −1	.988		5.6, −2	.881
	3.2, −1	.980		4.2, −2	.859
	2.4, −1	.969		3.2, −2	.837
.40	3.2, −1	.983	.60	1.8, −1	.982
	2.4, −1	.972		1.3, −1	.963
	1.8, −1	.957		1.0, −1	.943
	1.3, −1	.938		7.5, −2	.917

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
	$\theta_0=45°;\ \frac{\theta}{\theta_0}=0.50$—Continued				
0.60	5.6, −2	0.890	0.70	4.2, −3	0.568
	4.2, −2	.864		3.2, −3	.513
	3.2, −2	.839			
	2.4, −2	.812	.80	1.0, −1	.985
	1.8, −2	.783		7.5, −2	.971
	1.3, −2	.746		5.6, −2	.952
				4.2, −2	.930
.70	1.3, −1	.981		3.2, −2	.904
	1.0, −1	.966		2.4, −2	.872
	7.5, −2	.943		1.8, −2	.834
	5.6, −2	.917		1.3, −2	.784
	4.2, −2	.888		1.0, −2	.739
	3.2, −2	.858		7.5, −3	.686
	2.4, −2	.825		5.6, −3	.630
	1.8, −2	.790		4.2, −3	.571
	1.3, −2	.748		3.2, −3	.514
	1.0, −2	.712		2.4, −3	.450
	7.5, −3	.669		1.8, −3	.383
	5.6, −3	.621			
	$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.10$ [Pl. 22]				
0.05	7.5, −1	0.985	0.60	2.4, −1	0.985
.10	7.5, −1	.985		1.8, −1	.965
.15	7.5, −1	.985		1.3, −1	.927
.20	7.5, −1	.985		1.0, −1	.887
				7.5, −2	.836
.25	7.5, −1	.987		5.6, −2	.783
	5.6, −1	.979		4.2, −2	.732
	4.2, −1	.968		3.2, −2	.685
				2.4, −2	.635
.30	5.6, −1	.983		1.8, −2	.582
	4.2, −1	.970		1.3, −2	.517
	3.2, −1	.956		1.0, −2	.460
	2.4, −1	.936			
			.70	1.8, −1	.986
.35	5.6, −1	.988		1.3, −1	.963
	4.2, −1	.976		1.0, −1	.932
	3.2, −1	.960		7.5, −2	.888
	2.4, −1	.938		5.6, −2	.836
	1.8, −1	.912		4.2, −2	.779
	1.3, −1	.877		3.2, −2	.722
				2.4, −2	.660
.40	4.2, −1	.983		1.8, −2	.596
	3.2, −1	.967		1.3, −2	.522
	2.4, −1	.944		1.0, −2	.462
	1.8, −1	.916		7.5, −3	.394
	1.3, −1	.878		5.6, −3	.323
	1.0, −1	.845		4.2, −3	.254
				3.2, −3	.191
.45	4.2, −1	.990			
	3.2, −1	.976			
	2.4, −1	.954	.80	1.3, −1	.986
	1.8, −1	.924		1.0, −1	.970
	1.3, −1	.883		7.5, −2	.943
	1.0, −1	.847		5.6, −2	.906
	7.5, −2	.806		4.2, −2	.861
	5.6, −2	.764		3.2, −2	.812
				2.4, −2	.751
.50	3.2, −1	.985		1.8, −2	.680
	2.4, −1	.965		1.3, −2	.590
	1.8, −1	.936		1.0, −2	.511
	1.3, −1	.893		7.5, −3	.424
	1.0, −1	.854		5.6, −3	.338
	7.5, −2	.810		4.2, −3	.260
	5.6, −2	.765		3.2, −3	.193
	4.2, −2	.722		2.4, −3	.132
	3.2, −2	.681		1.8, −3	.082
	2.4, −2	.633			
	$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.15$ [Pl. 23]				
0.05	1.3, 0	0.990	0.30	2.4, −1	0.906
.10	1.3, 0	.990		1.8, −1	.870
	1.0, 0	.985			
			.35	5.6, −1	.982
.15	1.0, 0	.985		4.2, −1	.964
				3.2, −1	.941
.20	1.0, 0	.986		2.4, −1	.909
	7.5, −1	.979		1.8, −1	.871
				1.3, −1	.820
.25	7.5, −1	.981			
	5.6, −1	.969	.40	5.6, −1	.990
	4.2, −1	.953		4.2, −1	.975
	3.2, −1	.933		3.2, −1	.951
				2.4, −1	.918
.30	7.5, −1	.987		1.8, −1	.876
	5.6, −1	.974		1.3, −1	.821
	4.2, −1	.956		1.0, −1	.772
	3.2, −1	.935		7.5, −2	.715

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.15$—Continued			
0.45	4.2, −1	0.985	0.70	1.8, −1	0.980
	3.2, −1	.965		1.3, −1	.945
	2.4, −1	.932		1.0, −1	.901
	1.8, −1	.888		7.5, −2	.836
	1.3, −1	.828		5.6, −2	.759
	1.0, −1	.776		4.2, −2	.678
	7.5, −2	.716		3.2, −2	.598
	5.6, −2	.655		2.4, −2	.513
.50	3.2, −1	.977		1.8, −2	.429
	2.4, −1	.949		1.3, −2	.339
	1.8, −1	.906		1.0, −2	.271
	1.3, −1	.843		7.5, −3	.202
	1.0, −1	.786		5.6, −3	.139
	7.5, −2	.721		4.2, −3	.088
	5.6, −2	.657		3.2, −3	.051
	4.2, −2	.596	.80	1.3, −1	.980
	3.2, −2	.538		1.0, −1	.956
	2.4, −2	.476		7.5, −2	.916
.60	2.4, −1	.979		5.6, −2	.862
	1.8, −1	.948		4.2, −2	.797
	1.3, −1	.893		3.2, −2	.727
	1.0, −1	.834		2.4, −2	.642
	7.5, −2	.760		1.8, −2	.547
	5.6, −2	.683		1.3, −2	.431
	4.2, −2	.610		1.0, −2	.337
	3.2, −2	.545		7.5, −3	.241
	2.4, −2	.478		5.6, −3	.158
	1.8, −2	.410		4.2, −3	.095
	1.3, −2	.332		3.2, −3	.052
	1.0, −2	.269		2.4, −3	.024

$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.20$

[Pl. 24]

0.05	1.3, 0	0.987	0.50	2.4, −1	0.934
.10	1.3, 0	.987		1.8, −1	.878
				1.3, −1	.797
.15	1.3, 0	.987		1.0, −1	.723
	1.0, 0	.981		7.5, −2	.640
.20	1.3, 0	.989		5.6, −2	.559
	1.0, 0	.982		4.2, −2	.483
	7.5, −1	.972		3.2, −2	.414
	5.6, −1	.958		2.4, −2	.343
.25	1.0, 0	.987	.60	2.4, −1	.972
	7.5, −1	.976		1.8, −1	.933
	5.6, −1	.960		1.3, −1	.861
	4.2, −1	.939		1.0, −1	.785
	3.2, −1	.913		7.5, −2	.690
				5.6, −2	.592
.30	7.5, −1	.984		4.2, −2	.501
	5.6, −1	.967		3.2, −2	.422
	4.2, −1	.944		2.4, −2	.346
	3.2, −1	.915		1.8, −2	.274
	2.4, −1	.878		1.3, −2	.197
	1.8, −1	.832		1.0, −2	.142
.35	5.6, −1	.977	.70	1.8, −1	.974
	4.2, −1	.954		1.3, −1	.929
	3.2, −1	.923		1.0, −1	.871
	2.4, −1	.882		7.5, −2	.788
	1.8, −1	.833		5.6, −2	.689
	1.3, −1	.767		4.2, −2	.586
				3.2, −2	.489
.40	5.6, −1	.987		2.4, −2	.389
	4.2, −1	.967		1.8, −2	.297
	3.2, −1	.937		1.3, −2	.206
	2.4, −1	.893		1.0, −2	.144
	1.8, −1	.839		7.5, −3	.090
	1.3, −1	.769		5.6, −3	.050
	1.0, −1	.706			
	7.5, −2	.632	.80	1.3, −1	.974
				1.0, −1	.943
.45	4.2, −1	.980		7.5, −2	.891
	3.2, −1	.955		5.6, −2	.821
	2.4, −1	.912		4.2, −2	.739
	1.8, −1	.855		3.2, −2	.651
	1.3, −1	.778		2.4, −2	.549
	1.0, −1	.710		1.8, −2	.439
	7.5, −2	.634		1.3, −2	.314
	5.6, −2	.557		1.0, −2	.220
				7.5, −3	.133
.50	4.2, −1	.989		5.6, −3	.069
	3.2, −1	.971		4.2, −3	.030

$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.25$

[Pl. 25]

0.05	1.3, 0	0.984	0.20	1.3, 0	0.987
.10	1.3, 0	.984		1.0, 0	.979
				7.5, −1	.967
.15	1.3, 0	.985		5.6, −1	.950
	1.0, 0	.977			

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.25$—Continued			
0.25	1.0, 0	0.985	0.50	5.6, −2	0.473
	7.5, −1	.971		4.2, −2	.386
	5.6, −1	.952		3.2, −2	.311
	4.2, −1	.927		2.4, −2	.239
	3.2, −1	.896			
			.60	3.2, −1	.990
.30	7.5, −1	.980		2.4, −1	.967
	5.6, −1	.960		1.8, −1	.920
	4.2, −1	.932		1.3, −1	.833
	3.2, −1	.898		1.0, −1	.741
	2.4, −1	.854		7.5, −2	.628
	1.8, −1	.797		5.6, −2	.512
				4.2, −2	.407
.35	7.5, −1	.989		3.2, −2	.320
	5.6, −1	.972		2.4, −2	.241
	4.2, −1	.944		1.8, −2	.173
	3.2, −1	.907		1.3, −2	.109
	2.4, −1	.858		1.0, −2	.067
	1.8, −1	.799			
	1.3, −1	.719	.70	1.8, −1	.969
				1.3, −1	.915
.40	5.6, −1	.984		1.0, −1	.845
	4.2, −1	.961		7.5, −2	.745
	3.2, −1	.924		5.6, −2	.628
	2.4, −1	.872		4.2, −2	.507
	1.8, −1	.807		3.2, −2	.397
	1.3, −1	.722		2.4, −2	.290
	1.0, −1	.647		1.8, −2	.199
	7.5, −2	.559		1.3, −2	.117
				1.0, −2	.070
.45	4.2, −1	.976		7.5, −3	.035
	3.2, −1	.945			
	2.4, −1	.894		1.3, −1	.969
	1.8, −1	.825	.80	1.0, −1	.932
	1.3, −1	.733		7.5, −2	.869
	1.0, −1	.652		5.6, −2	.785
	7.5, −2	.561		4.2, −2	.688
	5.6, −2	.470		3.2, −2	.587
				2.4, −2	.473
.50	4.2, −1	.987		1.8, −2	.358
	3.2, −1	.965		1.3, −2	.235
	2.4, −1	.921		1.0, −2	.150
	1.8, −1	.854		7.5, −3	.080
	1.3, −1	.756		5.6, −3	.035
	1.0, −1	.667			
	7.5, −2	.569			

$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.30$

[Pl. 26]

0.05	1.8, 0	0.989	0.45	2.4, −1	0.879
.10	1.8, 0	.989		1.8, −1	.800
				1.3, −1	.694
.15	1.8, 0	.990		1.0, −1	.602
	1.3, 0	.982		7.5, −2	.499
	1.0, 0	.974		5.6, −2	.398
.20	1.3, 0	.985	.50	4.2, −1	.985
	1.0, 0	.976		3.2, −1	.960
	7.5, −1	.962		2.4, −1	.909
	5.6, −1	.942		1.8, −1	.832
				1.3, −1	.720
.25	1.0, 0	.983		1.0, −1	.620
	7.5, −1	.967		7.5, −2	.508
	5.6, −1	.945		5.6, −2	.401
	4.2, −1	.916		4.2, −2	.307
	3.2, −1	.881		3.2, −2	.230
				2.4, −2	.161
.30	7.5, −1	.977			
	5.6, −1	.954	.60	3.2, −1	.988
	4.2, −1	.922		2.4, −1	.962
	3.2, −1	.884		1.8, −1	.908
	2.4, −1	.832		1.3, −1	.809
	1.8, −1	.768		1.0, −1	.704
				7.5, −2	.575
.35	7.5, −1	.988		5.6, −2	.445
	5.6, −1	.968		4.2, −2	.330
	4.2, −1	.936		3.2, −2	.240
	3.2, −1	.894		2.4, −2	.164
	2.4, −1	.838		1.8, −2	.104
	1.8, −1	.770		1.3, −2	.055
	1.3, −1	.679		1.0, −2	.029
	1.0, −1	.595			
			.70	2.4, −1	.989
.40	5.6, −1	.982		1.8, −1	.964
	4.2, −1	.955		1.3, −1	.903
	3.2, −1	.914		1.0, −1	.823
	2.4, −1	.853		7.5, −2	.709
	1.8, −1	.779		5.6, −2	.576
	1.3, −1	.682		4.2, −2	.442
	1.0, −1	.596		3.2, −2	.324
	7.5, −2	.498		2.4, −2	.216
				1.8, −2	.131
.45	4.2, −1	.973		1.3, −2	.065
	3.2, −1	.937		1.0, −2	.032

$\theta_0=60°$; $\frac{\theta}{\theta_0}=0.30$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.80	1.3, −1	0.964	0.80	2.4, −2	0.416
	1.0, −1	.922		1.8, −2	.301
	7.5, −2	.851		1.3, −2	.187
	5.6, −2	.755		1.0, −2	.114
	4.2, −2	.645		7.5, −3	.058
	3.2, −2	.534		5.6, −3	.024

$\theta_0=60°$; $\frac{\theta}{\theta_0}=0.35$

[Pl. 27]

0.05	1.8, 0	0.988	0.50	4.2, −1	0.984
.10	1.8, 0	.988		3.2, −1	.956
				2.4, −1	.900
.15	1.8, 0	.988		1.8, −1	.815
	1.3, 0	.980		1.3, −1	.692
	1.0, 0	.971		1.0, −1	.581
				7.5, −2	.460
.20	1.3, 0	.984		5.6, −2	.345
	1.0, 0	.973		4.2, −2	.246
	7.5, −1	.958		3.2, −2	.169
	5.6, −1	.936		2.4, −2	.106
.25	1.0, 0	.981	.60	3.2, −1	.987
	7.5, −1	.964		2.4, −1	.958
	5.6, −1	.939		1.8, −1	.899
	4.2, −1	.908		1.3, −1	.790
	3.2, −1	.869		1.0, −1	.674
				7.5, −2	.533
.30	7.5, −1	.975		5.6, −2	.392
	5.6, −1	.950		4.2, −2	.271
	4.2, −1	.914		3.2, −2	.180
	3.2, −1	.872		2.4, −2	.109
	2.4, −1	.816		1.8, −2	.060
	1.8, −1	.745		1.3, −2	.026
.35	7.5, −1	.987	.70	2.4, −1	.988
	5.6, −1	.965		1.8, −1	.960
	4.2, −1	.930		1.3, −1	.893
	3.2, −1	.883		1.0, −1	.805
	2.4, −1	.821		7.5, −2	.679
	1.8, −1	.747		5.6, −2	.534
	1.3, −1	.647		4.2, −2	.391
	1.0, −1	.555		3.2, −2	.269
				2.4, −2	.164
.40	5.6, −1	.980		1.8, −2	.088
	4.2, −1	.951		1.3, −2	.036
	3.2, −1	.905			
	2.4, −1	.838	.80	1.8, −1	.989
	1.8, −1	.757		1.3, −1	.961
	1.3, −1	.650		1.0, −1	.914
	1.0, −1	.556		7.5, −2	.835
	7.5, −2	.448		5.6, −2	.730
				4.2, −2	.611
.45	4.2, −1	.970		3.2, −2	.494
	3.2, −1	.931		2.4, −2	.374
	2.4, −1	.866		1.8, −2	.264
	1.8, −1	.780		1.3, −2	.161
	1.3, −1	.663		1.0, −2	.097
	1.0, −1	.562		7.5, −3	.050
	7.5, −2	.450			
	5.6, −2	.341			
	4.2, −2	.246			

$\theta_0=60°$; $\frac{\theta}{\theta_0}=0.40$

[Pl. 28]

0.05	1.8, 0	0.987	0.25	3.2, −1	0.860
				2.4, −1	.802
.10	1.8, 0	.987	.30	1.0, 0	.989
.15	1.8, 0	.988		7.5, −1	.973
	1.3, 0	.979		5.6, −1	.946
	1.0, 0	.969		4.2, −1	.909
				3.2, −1	.863
.20	1.3, 0	.983		2.4, −1	.803
	1.0, 0	.972		1.8, −1	.728
	7.5, −1	.955	.35	7.5, −1	.986
	5.6, −1	.932		5.6, −1	.963
	4.2, −1	.901		4.2, −1	.925
				3.2, −1	.875
.25	1.0, 0	.980		2.4, −1	.809
	7.5, −1	.961		1.8, −1	.730
	5.6, −1	.935		1.3, −1	.623
	4.2, −1	.902		1.0, −1	.526

$\theta_0=60°$; $\frac{\theta}{\theta_0}=0.40$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	5.6, −1	0.979	0.60	1.8, −1	0.892
	4.2, −1	.947		1.3, −1	.775
	3.2, −1	.898		1.0, −1	.652
	2.4, −1	.827		7.5, −2	.502
	1.8, −1	.740		5.6, −2	.354
	1.3, −1	.627		4.2, −2	.228
	1.0, −1	.527		3.2, −2	.139
	7.5, −2	.413		2.4, −2	.074
				1.8, −2	.035
.45	5.6, −1	.990			
	4.2, −1	.968	.70	2.4, −1	.987
	3.2, −1	.926		1.8, −1	.958
	2.4, −1	.857		1.3, −1	.885
	1.8, −1	.765		1.0, −1	.792
	1.3, −1	.641		7.5, −2	.658
	1.0, −1	.533		5.6, −2	.504
	7.5, −2	.415		4.2, −2	.355
	5.6, −2	.301		3.2, −2	.231
	4.2, −2	.202		2.4, −2	.130
				1.8, −2	.062
.50	4.2, −1	.983		1.3, −2	.021
	3.2, −1	.953			
	2.4, −1	.893	.80	1.8, −1	.989
	1.8, −1	.803		1.3, −1	.958
	1.3, −1	.672		1.0, −1	.908
	1.0, −1	.554		7.5, −2	.824
	7.5, −2	.424		5.6, −2	.712
	5.6, −2	.304		4.2, −2	.587
	4.2, −2	.203		3.2, −2	.466
	3.2, −2	.128		2.4, −2	.346
	2.4, −2	.071		1.8, −2	.242
				1.3, −2	.147
.60	3.2, −1	.986		1.0, −2	.090
	2.4, −1	.955		7.5, −3	.047

$\theta_0=60°$; $\frac{\theta}{\theta_0}=0.45$

[Pl. 29]

0.05	1.8, 0	0.986	0.45	7.5, −2	0.393
.10	1.8, 0	.986		5.6, −2	.276
				4.2, −2	.177
.15	1.8, 0	.987			
	1.3, 0	.978	.50	4.2, −1	.982
	1.0, 0	.968		3.2, −1	.951
				2.4, −1	.889
.20	1.3, 0	.982		1.8, −1	.795
	1.0, 0	.971		1.3, −1	.659
	7.5, −1	.953		1.0, −1	.537
	5.6, −1	.930		7.5, −2	.403
	4.2, −1	.897		5.6, −2	.279
				4.2, −2	.178
.25	1.0, 0	.979		3.2, −2	.104
	7.5, −1	.960		2.4, −2	.051
	5.6, −1	.933		1.8, −2	.021
	4.2, −1	.898			
	3.2, −1	.855	.60	3.2, −1	.986
	2.4, −1	.795		2.4, −1	.953
				1.8, −1	.888
.30	1.0, 0	.989		1.3, −1	.767
	7.5, −1	.972		1.0, −1	.639
	5.6, −1	.944		7.5, −2	.483
	4.2, −1	.905		5.6, −2	.330
	3.2, −1	.858		4.2, −2	.203
	2.4, −1	.796		3.2, −2	.115
	1.8, −1	.717		2.4, −2	.054
				1.8, −2	.021
.35	7.5, −1	.985			
	5.6, −1	.962	.70	2.4, −1	.987
	4.2, −1	.922		1.8, −1	.956
	3.2, −1	.871		1.3, −1	.881
	2.4, −1	.802		1.0, −1	.784
	1.8, −1	.720		7.5, −2	.645
	1.3, −1	.609		5.6, −2	.486
	1.0, −1	.508		4.2, −2	.333
				3.2, −2	.209
.40	5.6, −1	.978		2.4, −2	.111
	4.2, −1	.945		1.8, −2	.049
	3.2, −1	.894			
	2.4, −1	.821	.80	1.8, −1	.988
	1.8, −1	.730		1.3, −1	.956
	1.3, −1	.613		1.0, −1	.905
	1.0, −1	.509		7.5, −2	.818
	7.5, −2	.391		5.6, −2	.702
				4.2, −2	.572
.45	5.6, −1	.989		3.2, −2	.450
	4.2, −1	.967		2.4, −2	.331
	3.2, −1	.924		1.8, −2	.230
	2.4, −1	.852		1.3, −2	.141
	1.8, −1	.756		1.0, −2	.088
	1.3, −1	.627		7.5, −3	.046
	1.0, −1	.516			

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=60°;\ \frac{\theta}{\theta_0}=0.50$			
		[Pl. 30]			
0.05	1.8, 0	0.986	0.45	1.0, −1	0.510
.10	1.8, 0	.986		7.5, −2	.386
				5.6, −2	.268
.15	1.8, 0	.987		4.2, −2	.168
	1.3, 0	.978			
	1.0, 0	.968	.50	4.2, −1	.982
				3.2, −1	.950
.20	1.3, 0	.982		2.4, −1	.888
	1.0, 0	.970		1.8, −1	.793
	7.5, −1	.953		1.3, −1	.655
	5.6, −1	.929		1.0, −1	.531
	4.2, −1	.896		7.5, −2	.396
				5.6, −2	.271
.25	1.0, 0	.979		4.2, −2	.169
	7.5, −1	.959		3.2, −2	.096
	5.6, −1	.932		2.4, −2	.045
	4.2, −1	.897			
	3.2, −1	.853	.60	3.2, −1	.985
	2.4, −1	.792		2.4, −1	.953
				1.8, −1	.887
.30	1.0, 0	.989		1.3, −1	.764
	7.5, −1	.972		1.0, −1	.634
	5.6, −1	.943		7.5, −2	.477
	4.2, −1	.904		5.6, −2	.323
	3.2, −1	.856		4.2, −2	.195
	2.4, −1	.793		3.2, −2	.107
	1.8, −1	.714		2.4, −2	.048
.35	7.5, −1	.985	.70	2.4, −1	.987
	5.6, −1	.961		1.8, −1	.956
	4.2, −1	.921		1.3, −1	.880
	3.2, −1	.869		1.0, −1	.781
	2.4, −1	.800		7.5, −2	.641
	1.8, −1	.716		5.6, −2	.480
	1.3, −1	.604		4.2, −2	.326
	1.0, −1	.502		3.2, −2	.202
				2.4, −2	.105
.40	5.6, −1	.978		1.8, −2	.045
	4.2, −1	.944			
	3.2, −1	.893	.80	1.8, −1	.988
	2.4, −1	.819		1.3, −1	.956
	1.8, −1	.727		1.0, −1	.904
	1.3, −1	.608		7.5, −2	.815
	1.0, −1	.503		5.6, −2	.698
	7.5, −2	.384		4.2, −2	.568
				3.2, −2	.444
.45	5.6, −1	.989		2.4, −2	.325
	4.2, −1	.966		1.8, −2	.226
	3.2, −1	.923		1.3, −2	.139
	2.4, −1	.850		1.0, −2	.087
	1.8, −1	.753		7.5, −3	.046
	1.3, −1	.623			
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.05$			
		[Pl. 31]			
0.05	1.0, 0	0.987	0.50	1.8, −1	0.946
.10	1.0, 0	.987		1.3, −1	.919
.15	1.0, 0	.987		1.0, −1	.897
				7.5, −2	.872
.20	1.0, 0	.988		5.6, −2	.847
	7.5, −1	.983		4.2, −2	.822
.25	7.5, −1	.984		3.2, −2	.796
	5.6, −1	.977			
	4.2, −1	.968	.60	2.4, −1	.984
				1.8, −1	.968
.30	7.5, −1	.988		1.3, −1	.942
	5.6, −1	.980		1.0, −1	.918
	4.2, −1	.970		7.5, −2	.889
	3.2, −1	.958		5.6, −2	.859
.35	5.6, −1	.985		4.2, −2	.828
	4.2, −1	.974		3.2, −2	.799
	3.2, −1	.961		2.4, −2	.766
	2.4, −1	.946		1.8, −2	.731
	1.8, −1	.930		1.3, −2	.685
				1.0, −2	.644
.40	4.2, −1	.980			
	3.2, −1	.967	.70	1.8, −1	.985
	2.4, −1	.950		1.3, −1	.968
	1.8, −1	.932		1.0, −1	.948
	1.3, −1	.910		7.5, −2	.922
				5.6, −2	.892
.45	4.2, −1	.987		4.2, −2	.858
	3.2, −1	.975		3.2, −2	.823
	2.4, −1	.958		2.4, −2	.782
	1.8, −1	.937		1.8, −2	.740
	1.3, −1	.913		1.3, −2	.689
	1.0, −1	.892		1.0, −2	.645
	7.5, −2	.870		7.5, −3	.594
				5.6, −3	.537
.50	3.2, −1	.982		4.2, −3	.475
	2.4, −1	.967		3.2, −3	.414

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.05$—Continued			
0.80	1.3, −1	0.987	0.80	1.3, −2	0.733
	1.0, −1	.975		1.0, −2	.678
	7.5, −2	.958		7.5, −3	.614
	5.6, −2	.937		5.6, −3	.547
	4.2, −2	.911		4.2, −3	.480
	3.2, −2	.880		3.2, −3	.415
	2.4, −2	.841		2.4, −3	.345
	1.8, −2	.794		1.8, −3	.276
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.10$			
		[Pl. 32]			
0.05	1.8, 0	0.987	0.50	1.3, −1	0.841
.10	1.8, 0	.987		1.0, −1	.797
				7.5, −2	.749
.15	1.8, 0	.988		5.6, −2	.701
	1.3, 0	.981		4.2, −2	.654
				3.2, −2	.606
.20	1.3, 0	.984		2.4, −2	.551
	1.0, 0	.976			
	7.5, −1	.966	.60	3.2, −1	.987
	5.6, −1	.953		2.4, −1	.968
				1.8, −1	.936
.25	1.3, 0	.990		1.3, −1	.886
	1.0, 0	.981		1.0, −1	.838
	7.5, −1	.969		7.5, −2	.782
	5.6, −1	.954		5.6, −2	.723
	4.2, −1	.937		4.2, −2	.666
	3.2, −1	.917		3.2, −2	.612
				2.4, −2	.553
.30	1.0, 0	.989		1.8, −2	.492
	7.5, −1	.977		1.3, −2	.418
	5.6, −1	.960		1.0, −2	.356
	4.2, −1	.940			
	3.2, −1	.918	.70	2.4, −1	.989
	2.4, −1	.891		1.8, −1	.971
				1.3, −1	.937
.35	7.5, −1	.986		1.0, −1	.898
	5.6, −1	.970		7.5, −2	.847
	4.2, −1	.949		5.6, −2	.788
	3.2, −1	.924		4.2, −2	.723
	2.4, −1	.894		3.2, −2	.657
	1.8, −1	.861		2.4, −2	.584
	1.3, −1	.821		1.8, −2	.509
				1.3, −2	.425
.40	5.6, −1	.981		1.0, −2	.358
	4.2, −1	.961		7.5, −3	.287
	3.2, −1	.935		5.6, −3	.217
	2.4, −1	.902		4.2, −3	.154
	1.8, −1	.866		3.2, −3	.103
	1.3, −1	.822			
	1.0, −1	.785	.80	1.3, −1	.974
				1.0, −1	.951
.45	5.6, −1	.989		7.5, −2	.918
	4.2, −1	.974		5.6, −2	.876
	3.2, −1	.950		4.2, −2	.825
	2.4 −1	.916		3.2, −2	.767
	1.8, −1	.877		2.4, −2	.695
	1.3, −1	.828		1.8, −2	.611
	1.0, −1	.788		1.3, −2	.505
	7.5, −2	.745		1.0, −2	.417
	5.6, −2	.700		7.5, −3	.322
				5.6, −3	.234
.50	4.2, −1	.984		4.2, −3	.161
	3.2, −1	.965		3.2, −3	.105
	2.4, −1	.934		2.4, −3	.060
	1.8, −1	.894		1.8, −3	.030
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.15$			
		[Pl. 33]			
0.05	2.4, 0	0.986	0.25	5.6, −1	0.933
				4.2, −1	.907
.10	2.4, 0	.986		3.2, −1	.877
	1.8, 0	.981			
			.30	1.0, 0	.983
.15	2.4, 0	.988		7.5, −1	.966
	1.8, 0	.982		5.6, −1	.942
	1.3, 0	.973		4.2, −1	.912
	1.0, 0	.963		3.2, −1	.880
				2.4, −1	.840
.20	1.8, 0	.987		1.8, −1	.795
	1.3, 0	.976			
	1.0, 0	.965	.35	7.5, −1	.979
	7.5, −1	.950		5.6, −1	.956
	5.6, −1	.930		4.2, −1	.925
				3.2, −1	.888
.25	1.3, 0	.985		2.4, −1	.844
	1.0, 0	.973		1.8, −1	.797
	7.5, −1	.955		1.3, −1	.737

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	7.5, −1	0.989	0.60	5.6, −2	0.599
	5.6, −1	.972		4.2, −2	.520
	4.2, −1	.943		3.2, −2	.448
	3.2, −1	.905		2.4, −2	.376
	2.4, −1	.856		1.8, −2	.304
	1.8, −1	.803		1.3, −2	.226
	1.3, −1	.739		1.0, −2	.168
	1.0, −1	.686			
	7.5, −2	.627	.70	2.4, −1	.983
				1.8, −1	.957
.45	5.6, −1	.984		1.3, −1	.907
	4.2, −1	.961		1.0, −1	.851
	3.2, −1	.927		7.5, −2	.777
	2.4, −1	.877		5.6, −2	.692
	1.8, −1	.819		4.2, −2	.601
	1.3, −1	.748		3.2, −2	.512
	1.0, −1	.690		2.4, −2	.417
	7.5, −2	.628		1.8, −2	.326
	5.6, −2	.565		1.3, −2	.234
				1.0, −2	.170
.50	4.2 −1	.977		7.5, −3	.112
	3.2 −1	.949		5.6, −3	.065
	2.4, −1	.903		4.2, −3	.033
	1.8, −1	.844			
	1.3, −1	.767	.80	1.8, −1	.986
	1.0, −1	.703		1.3, −1	.961
	7.5, −2	.634		1.0, −1	.928
	5.6, −2	.567		7.5, −2	.880
	4.2, −2	.503		5.6, −2	.818
	3.2, −2	.441		4.2, −2	.746
	2.4, −2	.373		3.2, −2	.667
				2.4, −2	.570
.60	3.2, −1	.981		1.8, −2	.464
	2.4, −1	.953		1.3, −2	.339
	1.8, −1	.906		1.0, −2	.244
	1.3, −1	.833		7.5, −3	.154
	1.0, −1	.763		5.6, −3	.085
	7.5, −2	.682		4.2, −3	.040

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 34]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2, 0	0.987	0.45	7.5, −2	0.523
				5.6, −2	.447
.10	3.2, 0	.988			
	2.4, 0	.982	.50	4.2, −1	.970
				3.2, −1	.934
.15	2.4, 0	.985		2.4, −1	.875
	1.8, 0	.977		1.8, −1	.798
	1.3, 0	.964		1.3, −1	.699
	1.0, 0	.952		1.0, −1	.617
.20	1.8, 0	.984		7.5, −2	.531
	1.3, 0	.969		5.6, −2	.450
	1.0, 0	.954		4.2, −2	.375
	7.5, −1	.935		3.2, −2	.307
	5.6, −1	.910		2.4, −2	.238
.25	1.3, 0	.980	.60	3.2, −1	.975
	1.0, 0	.964		2.4, −1	.939
	7.5, −1	.941		1.8, −1	.878
	5.6, −1	.913		1.3, −1	.784
	4.2, −1	.879		1.0, −1	.694
	3.2, −1	.841		7.5, −2	.591
				5.6, −2	.489
.30	1.0, 0	.979		4.2, −2	.395
	7.5, −1	.956		3.2, −2	.316
	5.6, −1	.924		2.4, −2	.240
	4.2, −1	.886		1.8, −2	.173
	3.2, −1	.844		1.3, −2	.109
	2.4, −1	.794		1.0, −2	.067
	1.8, −1	.735			
.35	1.0, 0	.990	.70	2.4, −1	.978
	7.5, −1	.973		1.8, −1	.945
	5.6, −1	.943		1.3, −1	.879
	4.2, −1	.902		1.0, −1	.807
	3.2, −1	.855		7.5, −2	.712
	2.4, −1	.799		5.6, −2	.606
	1.8, −1	.737		4.2, −2	.496
	1.3, −1	.661		3.2, −2	.393
				2.4, −2	.289
.40	7.5, −1	.986		1.8, −2	.198
	5.6, −1	.964		1.3, −2	.117
	4.2, −1	.926		1.0, −2	.070
	3.2, −1	.877		7.5, −3	.035
	2.4, −1	.814	.80	1.8, −1	.982
	1.8, −1	.745		1.3, −1	.950
	1.3, −1	.664		1.0, −1	.907
	1.0, −1	.596		7.5, −2	.845
	7.5, −2	.522		5.6, −2	.767
				4.2, −2	.677
.45	5.6, −1	.980		3.2, −2	.582
	4.2, −1	.950		2.4, −2	.472
	3.2, −1	.905		1.8, −2	.358
	2.4, −1	.841		1.3, −2	.235
	1.8, −1	.766		1.0, −2	.150
	1.3, −1	.675		7.5, −3	.080
	1.0, −1	.601		5.6, −3	.035

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 35]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 0	0.989	0.45	1.8, −1	0.718
				1.3, −1	.610
.10	4.2, 0	.990		1.0, −1	.523
	3.2, 0	.985		7.5, −2	.433
	2.4, 0	.979		5.6, −2	.348
	1.8, 0	.970		4.2, −2	.271
.15	3.2, 0	.990	.50	5.6, −1	.988
	2.4, 0	.982		4.2, −1	.964
	1.8, 0	.972		3.2, −1	.920
	1.3, 0	.957		2.4, −1	.849
	1.0, 0	.942		1.8, −1	.757
				1.3, −1	.639
.20	1.8, 0	.980		1.0, −1	.542
	1.3, 0	.963		7.5, −2	.442
	1.0, 0	.945		5.6, −2	.351
	7.5, −1	.922		4.2, −2	.272
	5.6, −1	.892		3.2, −2	.205
	4.2, −1	.854		2.4, −2	.142
.25	1.3, 0	.976	.60	3.2, −1	.970
	1.0, 0	.957		2.4, −1	.926
	7.5, −1	.929		1.8, −1	.853
	5.6, −1	.895		1.3, −1	.740
	4.2, −1	.855		1.0, −1	.634
	3.2, −1	.809		7.5, −2	.513
	2.4, −1	.751		5.6, −2	.396
				4.2, −2	.295
.30	1.3, 0	.989		3.2, −2	.215
	1.0, 0	.974		2.4, −2	.145
	7.5, −1	.947		1.8, −2	.091
	5.6, −1	.909		1.3, −2	.046
	4.2, −1	.863			
	3.2, −1	.813			
	2.4, −1	.752	.70	2.4, −1	.974
	1.8, −1	.682		1.8, −1	.934
				1.3, −1	.855
.35	1.0, 0	.988		1.0, −1	.768
	7.5, −1	.968		7.5, −2	.656
	5.6, −1	.932		5.6, −2	.532
	4.2, −1	.882		4.2, −2	.410
	3.2, −1	.826		3.2, −2	.301
	2.4, −1	.758		2.4, −2	.199
	1.8, −1	.684		1.8, −2	.118
	1.3, −1	.594		1.3, −2	.055
	1.0, −1	.517		1.0, −2	.026
.40	7.5, −1	.983	.80	1.8, −1	.978
	5.6, −1	.956		1.3, −1	.940
	4.2, −1	.911		1.0, −1	.888
	3.2, −1	.852		7.5, −2	.814
	2.4, −1	.777		5.6, −2	.722
	1.8, −1	.694		4.2, −2	.620
	1.3, −1	.597		3.2, −2	.516
	1.0, −1	.518		2.4, −2	.401
	7.5, −2	.432		1.8, −2	.290
				1.3, −2	.179
.45	5.6, −1	.976		1.0, −2	.109
	4.2, −1	.940		7.5, −3	.055
	3.2, −1	.886		5.6, −3	.023
	2.4, −1	.809			

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.30$

[Pl. 36]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 0	0.987	0.30	1.3, 0	0.987
.10	4.2, 0	.988		1.0, 0	.970
	3.2, 0	.983		7.5, −1	.940
	2.4, 0	.976		5.6, −1	.896
	1.8, 0	.966		4.2, −1	.843
				3.2, −1	.786
.15	3.2, 0	.988		2.4, −1	.716
	2.4, 0	.979		1.8, −1	.637
	1.8, 0	.968			
	1.3, 0	.951	.35	1.0, 0	.986
	1.0, 0	.934		7.5, −1	.963
	7.5, 0−1	.909		5.6, −1	.922
				4.2, −1	.866
.20	2.4, 0	.990		3.2, −1	.801
	1.8, 0	.978		2.4, −1	.723
	1.3, 0	.958		1.8, −1	.639
	1.0, 0	.937		1.3, −1	.537
	7.5, −1	.910		1.0, −1	.451
	5.6, −1	.876			
	4.2, −1	.833	.40	7.5, −1	.981
				5.6, −1	.950
.25	1.3, 0	.973		4.2, −1	.898
	1.0, 0	.951		3.2, −1	.830
	7.5, −1	.919		2.4, −1	.745
	5.6, −1	.880		1.8, −1	.651
	4.2, −1	.834		1.3, −1	.541
	3.2, −1	.782		1.0, −1	.452
	2.4, −1	.715		7.5, −2	.357

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.30$—Continued			
0.45	5.6, −1	0.972	0.60	5.6, −2	0.322
	4.2, −1	.931		4.2, −2	.218
	3.2, −1	.869		3.2, −2	.142
	2.4, −1	.781		2.4, −2	.084
	1.8, −1	.678		1.8, −2	.044
	1.3, −1	.555			
	1.0, −1	.458	.70	2.4, −1	.970
	7.5, −2	.359		1.8, −1	.924
	5.6, −2	.269		1.3, −1	.834
	4.2, −2	.193		1.0, −1	.735
				7.5, −2	.608
.50	5.6, −1	.986		5.6, −2	.472
	4.2, −1	.959		4.2, −2	.343
	3.2, −1	.909		3.2, −2	.234
	2.4, −1	.827		2.4, −2	.140
	1.8, −1	.722		1.8, −2	.072
	1.3, −1	.588		1.3, −2	.027
	1.0, −1	.479			
	7.5, −2	.369	.80	1.8, −1	.975
	5.6, −2	.272		1.3, −1	.931
	4.2, −2	.193		1.0, −1	.872
	3.2, −2	.132		7.5, −2	.787
	2.4, −2	.081		5.6, −2	.684
.60	4.2, −1	.989		4.2, −2	.574
	3.2, −1	.966		3.2, −2	.466
	2.4, −1	.916		2.4, −2	.353
	1.8, −1	.832		1.8, −2	.250
	1.3, −1	.703		1.3, −2	.152
	1.0, −1	.582		1.0, −2	.093
	7.5, −2	.447		7.5, −3	.048

$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.35$

[Pl. 37]

0.05	4.2, 0	0.986	0.45	5.6, −1	0.969
				4.2, −1	.924
.10	4.2, 0	.987		3.2, −1	.856
	3.2, 0	.981		2.4, −1	.759
	2.4, 0	.973		1.8, −1	.646
	1.8, 0	.963		1.3, −1	.511
				1.0, −1	.407
.15	3.2, 0	.987		7.5, −2	.302
	2.4, 0	.977		5.6, −2	.210
	1.8, 0	.964		4.2, −2	.136
	1.3, 0	.946			
	1.0, 0	.927	.50	5.6, −1	.985
	7.5, −1	.900		4.2, −1	.955
				3.2, −1	.899
.20	2.4, 0	.989		2.4, −1	.810
	1.8, 0	.975		1.8, −1	.694
	1.3, 0	.953		1.3, −1	.547
	1.0, 0	.931		1.0, −1	.429
	7.5, −1	.901		7.5, −2	.312
	5.6, −1	.863		5.6, −2	.213
	4.2, −1	.816		4.2, −2	.137
				3.2, −2	.083
.25	1.8, 0	.989		2.4, −2	.044
	1.3, 0	.970			
	1.0, 0	.946	.60	4.2, −1	.988
	7.5, −1	.911		3.2, −1	.963
	5.6, −1	.868		2.4, −1	.907
	4.2, −1	.817		1.8, −1	.815
	3.2, −1	.760		1.3, −1	.673
	2.4, −1	.687		1.0, −1	.542
				7.5, −2	.396
.30	1.3, 0	.986		5.6, −2	.265
	1.0, 0	.967		4.2, −2	.163
	7.5, −1	.933		3.2, −2	.094
	5.6, −1	.885		2.4, −2	.047
	4.2, −1	.827			
	3.2, −1	.764	.70	2.4, −1	.967
	2.4, −1	.688		1.8, −1	.916
	1.8, −1	.601		1.3, −1	.817
				1.0, −1	.709
.35	1.0, 0	.985		7.5, −2	.571
	7.5, −1	.959		5.6, −2	.426
	5.6, −1	.914		4.2, −2	.294
	4.2, −1	.852		3.2, −2	.189
	3.2, −1	.780		2.4, −2	.104
	2.4, −1	.696		1.8, −2	.048
	1.8, −1	.604			
	1.3, −1	.492	.80	1.8, −1	.972
	1.0, −1	.399		1.3, −1	.924
				1.0, −1	.860
.40	7.5, −1	.979		7.5, −2	.766
	5.6, −1	.945		5.6, −2	.655
	4.2, −1	.888		4.2, −2	.539
	3.2, −1	.813		3.2, −2	.431
	2.4, −1	.719		2.4, −2	.324
	1.8, −1	.616		1.8, −2	.229
	1.3, −1	.496		1.3, −2	.141
	1.0, −1	.400		1.0, −2	.088
	7.5, −2	.300		7.5, −3	.046

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.40$			
		[Pl. 38]			
0.05	5.6, 0	0.989	0.45	5.6, −1	0.967
	4.2, 0	.985		4.2, −1	.919
				3.2, −1	.846
.10	4.2, 0	.986		2.4, −1	.743
	3.2, 0	.980		1.8, −1	.622
	2.4, 0	.971		1.3, −1	.480
	1.8, 0	.960		1.0, −1	.370
				7.5, −2	.261
.15	3.2, 0	.986		5.6, −2	.169
	2.4, 0	.976		4.2, −2	.099
	1.8, 0	.962			
	1.3, 0	.943	.50	5.6, −1	.984
	1.0, 0	.922		4.2, −1	.951
	7.5, −1	.893		3.2, −1	.893
				2.4, −1	.797
.20	2.4, 0	.988		1.8, −1	.674
	1.8, 0	.974		1.3, −1	.518
	1.3, 0	.950		1.0, −1	.393
	1.0, 0	.926		7.5, −2	.272
	7.5, −1	.894		5.6, −2	.172
	5.6, −1	.854		4.2, −2	.100
	4.2, −1	.804		3.2, −2	.053
				2.4, −2	.024
.25	1.8, 0	.988			
	1.3, 0	.968	.60	4.2, −1	.987
	1.0, 0	.943		3.2, −1	.960
	7.5, −1	.905		2.4, −1	.901
	5.6, −1	.859		1.8, −1	.803
	4.2, −1	.805		1.3, −1	.652
	3.2, −1	.744		1.0, −1	.512
	2.4, −1	.666		7.5, −2	.360
				5.6, −2	.226
.30	1.3, 0	.985		4.2, −2	.126
	1.0, 0	.965		3.2, −2	.064
	7.5, −1	.929		2.4, −2	.027
	5.6, −1	.878			
	4.2, −1	.815	.70	3.2, −1	.990
	3.2, −1	.748		2.4, −1	.965
	2.4, −1	.667		1.8, −1	.911
	1.8, −1	.575		1.3, −1	.805
				1.0, −1	.690
.35	1.0, 0	.983		7.5, −2	.544
	7.5, −1	.956		5.6−, 2	.394
	5.6, −1	.908		4.2, −2	.261
	4.2, −1	.842		3.2, −2	.160
	3.2, −1	.766		2.4, −2	.084
	2.4, −1	.675		1.8, −2	.037
	1.8, −1	.577			
	1.3, −1	.459	.80	1.8, −1	.971
	1.0, −1	.361		1.3, −1	.919
				1.0, −1	.850
.40	7.5, −1	.978		7.5, −2	.751
	5.6, −1	.941		5.6, −2	.634
	4.2, −1	.880		4.2, −2	.515
	3.2, −1	.801		3.2, −2	.408
	2.4, −1	.700		2.4, −2	.306
	1.8, −1	.590		1.8, −2	.218
	1.3, −1	.463		1.3, −2	.137
	1.0, −1	.362		1.0, −2	.087
	7.5, −2	.259		7.5, −3	.046

$\theta_0=75°;\ \frac{\theta}{\theta_0}=0.45$

[Pl. 39]

0.05	5.6, 0	0.989	0.30	1.3, 0	0.985
	4.2, 0	.985		1.0, 0	.964
				7.5, −1	.926
.10	4.2, 0	.985		5.6, −1	.873
	3.2, 0	.979		4.2, −1	.808
	2.4, 0	.970		3.2, −1	.739
	1.8, 0	.959		2.4, −1	.654
				1.8, −1	.559
.15	3.2, 0	.986			
	2.4, 0	.975			
	1.8, 0	.961	.35	1.0, 0	.983
	1.3, 0	.940		7.5, −1	.955
	1.0, 0	.919		5.6, −1	.905
	7.5, −1	.889		4.2, −1	.836
.20	2.4, 0	.987		3.2, −1	.757
	1.8, 0	.973		2.4, −1	.663
	1.3, 0	.948		1.8, −1	.561
	1.0, 0	.923		1.3, −1	.439
	7.5, −1	.890		1.0, −1	.339
	5.6, −1	.849			
	4.2, −1	.796	.40	7.5, −1	.977
				5.6, −1	.939
.25	1.8, 0	.988		4.2, −1	.875
	1.3, 0	.967		3.2, −1	.793
	1.0, 0	.940		2.4, −1	.689
	7.5, −1	.901		1.8, −1	.575
	5.6, −1	.854		1.3, −1	.443
	4.2, −1	.798		1.0, −1	.340
	3.2, −1	.734		7.5, −2	.234
	2.4, −1	.653			

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.45$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.45	7.5, −1	0.990	0.60	1.0, −1	0.494
	5.6, −1	.966		7.5, −2	.338
	4.2, −1	.916		5.6, −2	.203
	3.2, −1	.840		4.2, −2	.105
	2.4, −1	.733		3.2, −2	.048
	1.8, −1	.608	.70	3.2, −1	.990
	1.3, −1	.461		2.4, −1	.964
	1.0, −1	.347		1.8, −1	.907
	7.5, −2	.237		1.3, −1	.798
	5.6, −2	.145		1.0, −1	.678
	4.2, −2	.078		7.5, −2	.528
.50	5.6, −1	.983		5.6, −2	.375
	4.2, −1	.950		4.2, −2	.242
	3.2, −1	.888		3.2, −2	.145
	2.4, −1	.789		2.4, −2	.074
	1.8, −1	.661		1.8, −2	.033
	1.3, −1	.500	.80	1.8, −1	.969
	1.0, −1	.372		1.3, −1	.916
	7.5, −2	.248		1.0, −1	.844
	5.6, −2	.148		7.5, −2	.742
	4.2, −2	.079		5.6, −2	.622
	3.2, −2	.037		4.2, −2	.502
				3.2, −2	.396
.60	4.2, −1	.987		2.4, −2	.298
	3.2, −1	.959		1.8, −2	.214
	2.4, −1	.897		1.3, −2	.136
	1.8, −1	.795		1.0, −2	.086
	1.3, −1	.638		7.5, −3	.046

$\theta_0=75°$; $\frac{\theta}{\theta_0}=0.50$

[Pl. 40]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 0	0.989	0.45	7.5, −1	0.990
	4.2, 0	.984		5.6, −1	.966
				4.2, −1	.915
.10	4.2, 0	.985		3.2, −1	.838
	3.2, 0	.979		2.4, −1	.730
	2.4, 0	.970		1.8, −1	.603
	1.8, 0	.958		1.3, −1	.454
				1.0, −1	.340
.15	3.2, 0	.986		7.5, −2	.229
	2.4, 0	.974		5.6, −2	.137
	1.8, 0	.960		4.2, −2	.071
	1.3, 0	.940			
	1.0, 0	.918	.50	5.6, −1	.983
	7.5, −1	.888		4.2, −1	.949
				3.2, −1	.887
.20	2.4, 0	.987		2.4, −1	.787
	1.8, 0	.972		1.8, −1	.657
	1.3, 0	.948		1.3, −1	.494
	1.0, 0	.922		1.0, −1	.364
	7.5, −1	.889		7.5, −2	.240
	5.6, −1	.847		5.6, −2	.140
	4.2, −1	.794		4.2, −2	.072
				3.2, −2	.032
.25	1.8, 0	.988			
	1.3, 0	.967	.60	4.2, −1	.987
	1.0, 0	.940		3.2, −1	.958
	7.5, −1	.900		2.4, −1	.896
	5.6, −1	.852		1.8, −1	.793
	4.2, −1	.795		1.3, −1	.634
	3.2, −1	.731		1.0, −1	.488
	2.4, −1	.649		7.5, −2	.331
				5.6, −2	.195
.30	1.3, 0	.985		4.2, −2	.099
	1.0, 0	.963		3.2, −2	.043
	7.5, −1	.925			
	5.6, −1	.871	.70	3.2, −1	.989
	4.2, −1	.806		2.4, −1	.963
	3.2, −1	.735		1.8, −1	.906
	2.4, −1	.650		1.3, −1	.795
	1.8, −1	.553		1.0, −1	.674
				7.5, −2	.522
.35	1.0, 0	.983		5.6, −2	.368
	7.5, −1	.954		4.2, −2	.236
	5.6, −1	.904		3.2, −2	.140
	4.2, −1	.834		2.4, −2	.071
	3.2, −1	.754		1.8, −2	.031
	2.4, −1	.659			
	1.8, −1	.556	.80	1.8, −1	.969
	1.3, −1	.432		1.3, −1	.914
	1.0, −1	.331		1.0, −1	.843
				7.5, −2	.739
.40	7.5, −1	.976		5.6, −2	.618
	5.6, −1	.938		4.2, −2	.497
	4.2, −1	.874		3.2, −2	.392
	3.2, −1	.790		2.4, −2	.295
	2.4, −1	.685		1.8, −2	.213
	1.8, −1	.570		1.3, −2	.136
	1.3, −1	.437		1.0, −2	.086
	1.0, −1	.332		7.5, −3	.046
	7.5, −2	.226			

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 41]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	2.4, 0	0.990	0.50	1.0, −1	0.872
				7.5, −2	.844
.10	2.4, 0	.990		5.6, −2	.816
	1.8, 0	.987		4.2, −2	.787
				3.2, −2	.757
.15	1.8, 0	.987		2.4, −2	.720
	1.3, 0	.982			
			.60	3.2, −1	.988
.20	1.3, 0	.984		2.4, −1	.974
	1.0, 0	.978		1.8, −1	.954
	7.5, −1	.970		1.3, −1	.924
				1.0, −1	.897
.25	1.3, 0	.989		7.5, −2	.864
	1.0, 0	.982		5.6, −2	.830
	7.5, −1	.973		4.2, −2	.794
	5.6, −1	.962		3.2, −2	.760
	4.2, −1	.951		2.4, −2	.721
				1.8, −2	.679
.30	1.0, 0	.988		1.3, −2	.627
	7.5, −1	.979		1.0, −2	.579
	5.6, −1	.967			
	4.2, −1	.953	.70	2.4, −1	.989
	3.2, −1	.939		1.8, −1	.977
	2.4, −1	.924		1.3, −1	.956
				1.0, −1	.934
.35	7.5, −1	.986		7.5, −2	.904
	5.6, −1	.974		5.6, −2	.870
	4.2, −1	.959		4.2, −2	.830
	3.2, −1	.943		3.2, −2	.788
	2.4, −1	.925		2.4, −2	.741
	1.8, −1	.907		1.8, −2	.690
				1.3, −2	.631
.40	5.6, −1	.982		1.0, −2	.580
	4.2, −1	.968		7.5, −3	.522
	3.2, −1	.951		5.6, −3	.459
	2.4, −1	.930		4.2, −3	.392
	1.8, −1	.909		3.2, −3	.327
	1.3, −1	.885			
	1.0, −1	.865	.80	1.3, −1	.980
				1.0, −1	.967
.45	5.6, −1	.989		7.5, −2	.948
	4.2, −1	.977		5.6, −2	.923
	3.2, −1	.961		4.2, −2	.893
	2.4, −1	.939		3.2, −2	.857
	1.8, −1	.916		2.4, −2	.810
	1.3, −1	.889		1.8, −2	.755
	1.0, −1	.866		1.3, −2	.683
	7.5, −2	.842		1.0, −2	.620
				7.5, −3	.546
.50	4.2, −1	.985		5.6, −3	.471
	3.2, −1	.971		4.2, −3	.397
	2.4, −1	.951		3.2, −3	.328
	1.8, −1	.927		2.4, −3	.258
	1.3, −1	.896		1.8, −3	.191

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 42]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 0	0.989	0.35	1.0, 0	0.987
				7.5, −1	.972
.10	4.2, 0	.989		5.6, −1	.948
	3.2, 0	.985		4.2, −1	.919
	2.4, 0	.980		3.2, −1	.888
				2.4, −1	.853
.15	3.2, 0	.989		1.8, −1	.816
	2.4, 0	.983		1.3, −1	.772
	1.8, 0	.975			
	1.3, 0	.965	.40	7.5, −1	.984
	1.0, 0	.955		5.6, −1	.964
				4.2, −1	.936
.20	1.8, 0	.981		3.2, −1	.902
	1.3, 0	.968		2.4, −1	.863
	1.0, 0	.956		1.8, −1	.821
	7.5, −1	.942		1.3, −1	.774
	5.6, −1	.924		1.0, −1	.734
				7.5, −2	.690
.25	1.3, 0	.978			
	1.0, 0	.964	45	5.6, −1	.978
	7.5, −1	.946		4.2, −1	.954
	5.6, −1	.926		3.2, −1	.922
	4.2, −1	.903		2.4, −1	.880
	3.2, −1	.879		1.8, −1	.834
				1.3, −1	.781
.30	1.3, 0	.989		1.0, −1	.738
	1.0, 0	.977		7.5, −2	.691
	7.5, −1	.958		5.6, −2	.642
	5.6, −1	.934			
	4.2, −1	.907	.50	5.6, −1	.988
	3.2, −1	.880		4.2, −1	.970
	2.4, −1	.849		3.2, −1	.943
	1.8, −1	.815		2.4, −1	.903

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=90°;\ \frac{\theta}{\theta_0}=0.10$—Continued			
0.50	1.8, −1	0.855	0.70	5.6, −2	0.746
	1.3, −1	.796		4.2, −2	.672
	1.0, −1	.748		3.2, −2	.596
	7.5, −2	.696		2.4, −2	.512
	5.6, −2	.643		1.8, −2	.429
	4.2, −2	.590		1.3, −2	.339
	3.2, −2	.536		1.0, −2	.271
	2.4, −2	.475		7.5, −3	.202
				5.6, −3	.139
.60	3.2, −1	.976		4.2, −3	.088
	2.4, −1	.948		3.2, −3	.051
	1.8, −1	.908			
	1.3, −1	.851	.80	1.8, −1	.983
	1.0, −1	.797		1.3, −1	.961
	7.5, −2	.735		1.0, −1	.935
	5.6, −2	.669		7.5, −2	.897
	4.2, −2	.604		5.6, −2	.850
	3.2, −2	.543		4.2, −2	.792
	2.4, −2	.477		3.2, −2	.725
	1.8, −2	.410		2.4, −2	.642
	1.3, −2	.332		1.8, −2	.547
	1.0, −2	.269		1.3, −2	.431
				1.0, −2	.337
.70	2.4, −1	.979		7.5, −3	.241
	1.8, −1	.955		5.6, −3	.158
	1.3, −1	.913		4.2, −3	.095
	1.0, −1	.869		3.2, −3	.052
	7.5, −2	.813		2.4, −3	.024
		$\theta_0=90°;\ \frac{\theta}{\theta_0}=0.15$ [Pl. 43]			
0.05	5.6, 0	0.987	0.45	1.8, −1	0.757
	4.2, 0	.983		1.3, −1	.680
				1.0, −1	.619
.10	5.6, 0	.989		7.5, −2	.554
	4.2, 0	.984		5.6, −2	.488
	3.2, 0	.978			
	2.4, 0	.971	.50	5.6, −1	.983
	1.8, 0	.962		4.2, −1	.957
				3.2, −1	.916
.15	3.2, 0	.984		2.4, −1	.858
	2.4, 0	.974		1.8, −1	.788
	1.8, 0	.963		1.3, −1	.702
	1.3, 0	.948		1.0, −1	.633
	1.0, 0	.933		7.5, −2	.561
				5.6, −2	.490
.20	2.4, 0	.985		4.2, −2	.422
	1.8, 0	.973		3.2, −2	.356
	1.3, 0	.954		2.4, −2	.287
	1.0, 0	.936			
	7.5, −1	.914	.60	4.2, −1	.986
	5.6, −1	.888		3.2, −1	.965
				2.4, −1	.924
.25	1.8, 0	.986		1.8, −1	.865
	1.3, 0	.968		1.3, −1	.781
	1.0, 0	.948		1.0, −1	.705
	7.5, −1	.921		7.5, −2	.616
	5.6, −1	.891		5.6, −2	.526
	4.2, −1	.858		4.2, −2	.441
	3.2, −1	.822		3.2, −2	.365
				2.4, −2	.289
.30	1.3, 0	.983		1.8, −2	.219
	1.0, 0	.966		1.3, −2	.148
	7.5, −1	.938		1.0, −2	.099
	5.6, −1	.903			
	4.2, −1	.864	.70	3.2, −1	.989
	3.2, −1	.825		2.4, −1	.969
	2.4, −1	.779		1.8, −1	.934
	1.8, −1	.729		1.3, −1	.872
				1.0, −1	.809
.35	1.0, 0	.982		7.5, −2	.728
	7.5, −1	.959		5.6, −2	.634
	5.6, −1	.924		4.2, −2	.534
	4.2, −1	.881		3.2, −2	.437
	3.2, −1	.835		2.4, −2	.336
	2.4, −1	.784		1.8, −2	.243
	1.8, −1	.731		1.3, −2	.156
	1.3, −1	.667		1.0, −2	.102
				7.5, −3	.057
.40	7.5, −1	.977		5.6, −3	.027
	5.6, −1	.948			
	4.2, −1	.906	.80	1.8, −1	.975
	3.2, −1	.857		1.3, −1	.943
	2.4, −1	.799		1.0, −1	.904
	1.8, −1	.738		7.5, −2	.850
	1.3, −1	.670		5.6, −2	.782
	1.0, −1	.614		4.2, −2	.702
	7.5, −2	.552		3.2, −2	.614
				2.4, −2	.508
.45	7.5, −1	.988		1.8, −2	.395
	5.6, −1	.968		1.3, −2	.270
	4.2, −1	.933		1.0, −2	.180
	3.2, −1	.886		7.5, −3	.101
	2.4, −1	.824		5.6, −3	.047

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=90°;\ \frac{\theta}{\theta_0}=0.20$ [Pl. 44]			
0.05	7.5, 0	0.988	0.45	4.2, −1	0.913
	5.6, 0	.984		3.2, −1	.852
				2.4, −1	.773
.10	5.6, 0	.986		1.8, −1	.687
	4.2, 0	.979		1.3, −1	.589
	3.2, 0	.972		1.0, −1	.513
	2.4, 0	.962		7.5, −2	.435
	1.8, 0	.950		5.6, −2	.359
.15	4.2, 0	.989			
	3.2, 0	.979	.50	5.6, −1	.978
	2.4, 0	.967		4.2, −1	.944
	1.8, 0	.952		3.2, −1	.891
	1.3, 0	.933		2.4, −1	.816
	1.0, 0	.914		1.8, −1	.726
	7.5, −1	.888		1.3, −1	.617
				1.0, −1	.532
.20	2.4, 0	.981		7.5, −2	.444
	1.8, 0	.965		5.6, −2	.362
	1.3, 0	.940		4.2, −2	.288
	1.0, 0	.917		3.2, −2	.222
	7.5, −1	.889		2.4, −2	.158
	5.6, −1	.855			
	4.2, −1	.815	.60	4.2, −1	.982
				3.2, −1	.954
.25	1.8, 0	.982		2.4, −1	.902
	1.3, 0	.959		1.8, −1	.826
	1.0, 0	.932		1.3, −1	.718
	7.5, −1	.898		1.0, −1	.621
	5.6, −1	.859		7.5, −2	.512
	4.2, −1	.816		5.6, −2	.406
	3.2, −1	.770		4.2, −2	.311
	2.4, −1	.714		3.2, −2	.232
				2.4, −2	.161
.30	1.3, 0	.978		1.8, −2	.104
	1.0, 0	.956		1.3, −2	.055
	7.5, −1	.920		1.0, −2	.029
	5.6, −1	.874			
	4.2, −1	.824	.70	3.2, −1	.986
	3.2, −1	.773		2.4, −1	.960
	2.4, −1	.715		1.8, −1	.914
	1.8, −1	.651		1.3, −1	.835
				1.0, −1	.754
.35	1.0, 0	.976		7.5, −2	.652
	7.5, −1	.947		5.6, −2	.539
	5.6, −1	.902		4.2, −2	.423
	4.2, −1	.846		3.2, −2	.316
	3.2, −1	.787		2.4, −2	.214
	2.4, −1	.721		1.8, −2	.131
	1.8, −1	.653		1.3, −2	.065
	1.3, −1	.573		1.0, −2	.032
	1.0, −1	.507			
			.80	2.4, −1	.988
.40	1.0, 0	.989		1.8, −1	.968
	7.5, −1	.970		1.3, −1	.926
	5.6, −1	.932		1.0, −1	.876
	4.2, −1	.878		7.5, −2	.807
	3.2, −1	.814		5.6, −2	.723
	2.4, −1	.740		4.2, −2	.628
	1.8, −1	.663		3.2, −2	.527
	1.3, −1	.576		2.4, −2	.413
	1.0, −1	.508		1.8, −2	.301
	7.5, −2	.433		1.3, −2	.187
				1.0, −2	.114
.45	7.5, −1	.985		7.5, −3	.058
	5.6, −1	.959		5.6, −3	.024
		$\theta_0=90°;\ \frac{\theta}{\theta_0}=0.25$ [Pl. 45]			
0.05	1.0, 1	0.989	0.25	1.8, 0	0.978
	7.5, 0	.985		1.3, 0	.950
	5.6, 0	.980		1.0, 0	.919
				7.5, −1	.877
.10	7.5, 0	.989		5.6, −1	.830
	5.6, 0	.983		4.2, −1	.779
	4.2, 0	.975		3.2, −1	.724
	3.2, 0	.966		2.4, −1	.657
	2.4, 0	.955	.30	1.3, 0	.974
	1.8, 0	.940		1.0, 0	.947
				7.5, −1	.904
.15	4.2, 0	.986		5.6, −1	.849
	3.2, 0	.975		4.2, −1	.789
	2.4, 0	.960		3.2, −1	.728
	1.8, 0	.942		2.4, −1	.658
	1.3, 0	.919		1.8, −1	.583
	1.0, 0	.896			
	7.5, −1	.865	.35	1.3, 0	.989
				1.0, 0	.971
.20	2.4, 0	.977		7.5, −1	.936
	1.8, 0	.957		5.6, −1	.882
	1.3, 0	.928		4.2, −1	.815
	1.0, 0	.900		3.2, −1	.744
	7.5, −1	.866		2.4, −1	.665
	5.6, −1	.826		1.8, −1	.585
	4.2, −1	.778		1.3, −1	.492
				1.0, −1	.416

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.25$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	1.0, 0	0.987	0.60	2.4, −1	0.882
	7.5, −1	.963		1.8, −1	.791
	5.6, −1	.919		1.3, −1	.662
	4.2, −1	.853		1.0, −1	.549
	3.2, −1	.777		7.5, −2	.425
	2.4, −1	.688		5.6, −2	.310
	1.8, −1	.596		4.2, −2	.214
	1.3, −1	.495		3.2, −2	.141
	1.0, −1	.417		2.4, −2	.084
	7.5, −2	.335		1.8, −2	.044
.45	7.5, −1	.982	.70	3.2, −1	.983
	5.6, −1	.950		2.4, −1	.952
	4.2, −1	.895		1.8, −1	.897
	3.2, −1	.822		1.3, −1	.802
	2.4, −1	.727		1.0, −1	.706
	1.8, −1	.625		7.5, −2	.588
	1.3, −1	.510		5.6, −2	.461
	1.0, −1	.423		4.2, −2	.338
	7.5, −2	.337		3.2, −2	.232
	5.6, −2	.258		2.4, −2	.139
	4.2, −2	.188		1.8, −2	.072
.50	5.6, −1	.973		1.3, −2	.027
	4.2, −1	.932			
	3.2, −1	.869	.80	2.4, −1	.986
	2.4, −1	.779		1.8, −1	.962
	1.8, −1	.671		1.3, −1	.911
	1.3, −1	.543		1.0, −1	.851
	1.0, −1	.444		7.5, −2	.770
	7.5, −2	.347		5.6, −2	.674
	5.6, −2	.261		4.2, −2	.569
	4.2, −2	.189		3.2, −2	.464
	3.2, −2	.131		2.4, −2	.353
	2.4, −2	.081		1.8, −2	.250
				1.3, −2	.152
.60	4.2, −1	.979		1.0, −2	.093
	3.2, −1	.945		7.5, −3	.048

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.30$

[Pl. 46]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.0, 1	0.987	0.35	2.4, −1	0.618
	7.5, 0	.983		1.8, −1	.528
	5.6, 0	.977		1.3, −1	.424
				1.0, −1	.342
.10	7.5, 0	.988			
	5.6, 0	.980	.40	1.0, 0	.985
	4.2, 0	.971		7.5, −1	.958
	3.2, 0	.961		5.6, −1	.907
	2.4, 0	.948		4.2, −1	.832
	1.8, 0	.932		3.2, −1	.745
				2.4, −1	.644
.15	4.2, 0	.984		1.8, −1	.541
	3.2, 0	.971		1.3, −1	.428
	2.4, 0	.954		1.0, −1	.343
	1.8, 0	.934		7.5, −2	.258
	1.3, 0	.908			
	1.0, 0	.881	.45	7.5, −1	.979
	7.5, −1	.846		5.6, −1	.943
				4.2, −1	.880
.20	3.2, 0	.989		3.2, −1	.796
	2.4, 0	.974		2.4, −1	.689
	1.8, 0	.951		1.8, −1	.573
	1.3, 0	.918		1.3, −1	.445
	1.0, 0	.886		1.0, −1	.350
	7.5, −1	.847		7.5, −2	.260
	5.6, −1	.801		5.6, −2	.182
	4.2, −1	.746		4.2, −2	.119
.25	1.8, 0	.975	.50	5.6, −1	.969
	1.3, 0	.943		4.2, −1	.923
	1.0, 0	.907		3.2, −1	.850
	7.5, −1	.860		2.4, −1	.747
	5.6, −1	.806		1.8, −1	.625
	4.2, −1	.747		1.3, −1	.482
	3.2, −1	.685		1.0, −1	.373
	2.4, −1	.609		7.5, −2	.270
				5.6, −2	.185
.30	1.3, 0	.970		4.2, −2	.120
	1.0, 0	.939		3.2, −2	.073
	7.5, −1	.890		2.4, −2	.038
	5.6, −1	.827			
	4.2, −1	.759	.60	4.2, −1	.976
	3.2, −1	.689		3.2, −1	.937
	2.4, −1	.610		2.4, −1	.865
	1.8, −1	.525		1.8, −1	.761
				1.3, −1	.616
.35	1.3, 0	.988		1.0, −1	.489
	1.0, 0	.967		7.5, −2	.356
	7.5, −1	.927		5.6, −2	.238
	5.6, −1	.865		4.2, −2	.146
	4.2, −1	.788		3.2, −2	.084
	3.2, −1	.707		2.4, −2	.041

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.30$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.70	3.2, −1	0.981	0.80	2.4, −1	0.984
	2.4, −1	.946		1.8, −1	.956
	1.8, −1	.882		1.3, −1	.898
	1.3, −1	.774		1.0, −1	.830
	1.0, −1	.666		7.5, −2	.739
	7.5, −2	.535		5.6, −2	.635
	5.6, −2	.401		4.2, −2	.526
	4.2, −2	.278		3.2, −2	.423
	3.2, −2	.179		2.4, −2	.319
	2.4, −2	.098		1.8, −2	.226
	1.8, −2	.045		1.3, −2	.140
				1.0, −2	.088
				7.5, −3	.046

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.35$

[Pl. 47]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3, 1	0.989	0.40	1.8, −1	0.496
	1.0, 1	.986		1.3, −1	.376
	7.5, 0	.981		1.0, −1	.287
	5.6, 0	.975		7.5, −2	.200
	4.2, 0	.967			
			.45	7.5, −1	.977
.10	7.5, 0	.987		5.6, −1	.938
	5.6, 0	.978		4.2, −1	.868
	4.2, 0	.968		3.2, −1	.776
	3.2, 0	.957		2.4, −1	.658
	2.4, 0	.943		1.8, −1	.531
	1.8, 0	.925		1.3, −1	.393
				1.0, −1	.294
.15	4.2, 0	.983		7.5, −2	.202
	3.2, 0	.969		5.6, −2	.128
	2.4, 0	.950		4.2, −2	.074
	1.8, 0	.927			
	1.3, 0	.898	.50	5.6, −1	.966
	1.0, 0	.869		4.2, −1	.915
	7.5, −1	.830		3.2, −1	.835
				2.4, −1	.721
.20	3.2, 0	.988		1.8, −1	.588
	2.4, 0	.971		1.3, −1	.433
	1.8, 0	.946		1.0, −1	.319
	1.3, 0	.909		7.5, −2	.213
	1.0, 0	.875		5.6, −2	.132
	7.5, −1	.832		4.2, −2	.075
	5.6, −1	.781		3.2, −2	.040
	4.2, −1	.721			
			.60	4.2, −1	.973
.25	2.4, 0	.990		3.2, −1	.930
	1.8, 0	.972		2.4, −1	.851
	1.3, 0	.937		1.8, −1	.737
	1.0, 0	.898		1.3, −1	.578
	7.5, −1	.846		1.0, −1	.443
	5.6, −1	.787		7.5, −2	.304
	4.2, −1	.722		5.6, −2	.186
	3.2, −1	.653		4.2, −2	.102
	2.4, −1	.571		3.2, −2	.050
				2.4, −2	.020
.30	1.8, 0	.990			
	1.3, 0	.967	.70	3.2, −1	.979
	1.0, 0	.933		2.4, −1	.940
	7.5, −1	.879		1.8, −1	.870
	5.6, −1	.810		1.3, −1	.752
	4.2, −1	.734		1.0, −1	.634
	3.2, −1	.658		7.5, −2	.495
	2.4, −1	.572		5.6, −2	.358
	1.8, −1	.480		4.2, −2	.238
				3.2, −2	.147
.35	1.3, 0	.986		2.4, −2	.078
	1.0, 0	.964		1.8, −2	.035
	7.5, −1	.919			
	5.6, −1	.851	.80	2.4, −1	.983
	4.2, −1	.767		1.8, −1	.952
	3.2, −1	.678		1.3, −1	.888
	2.4, −1	.581		1.0, −1	.814
	1.8, −1	.482		7.5, −2	.715
	1.3, −1	.372		5.6, −2	.605
	1.0, −1	.286		4.2, −2	.496
				3.2, −2	.397
.40	1.0, 0	.984		2.4, −2	.300
	7.5, −1	.954		1.8, −2	.216
	5.6, −1	.898		1.3, −2	.137
	4.2, −1	.815		1.0, −2	.087
	3.2, −1	.719		7.5, −3	.046
	2.4, −1	.608			

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.40$

[Pl. 48]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3, 1	0.989	0.10	7.5, 0	0.986
	1.0, 1	.985		5.6, 0	.977
	7.5, 0	.980		4.2, 0	.966
	5.6, 0	.973		3.2, 0	.954
	4.2, 0	.965		2.4, 0	.939
				1.8, 0	.920

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.40$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.15	4.2,0	0.981	0.45	7.5,−1	0.976
	3.2,0	.966		5.6,−1	.933
	2.4,0	.946		4.2,−1	.859
	1.8,0	.923		3.2,−1	.761
	1.3,0	.891		2.4,−1	.635
	1.0,0	.861		1.8,−1	.501
	7.5,−1	.819		1.3,−1	.357
				1.0,−1	.255
.20	3.2,0	.987		7.5,−2	.163
	2.4,0	.969		5.6,−2	.094
	1.8,0	.943		4.2,−2	.048
	1.3,0	.903	.50	7.5,−1	.990
	1.0,0	.866		5.6,−1	.964
	7.5,−1	.821		4.2,−1	.909
	5.6,−1	.766		3.2,−1	.824
	4.2,−1	.702		2.4,−1	.703
				1.8,−1	.561
.25	2.4,0	.989		1.3,−1	.399
	1.8,0	.971		1.0,−1	.280
	1.3,0	.933		7.5,−2	.175
	1.0,0	.891		5.6,−2	.097
	7.5,−1	.835		4.2,−2	.048
	5.6,−1	.772			
	4.2,−1	.704	.60	4.2,−1	.971
	3.2,−1	.630		3.2,−1	.926
	2.4,−1	.543		2.4,−1	.841
				1.8,−1	.720
.30	1.8,0	.989		1.3,−1	.552
	1.3,0	.965		1.0,−1	.410
	1.0,0	.928		7.5,−2	.268
	7.5,−1	.870		5.6,−2	.153
	5.6,−1	.797		4.2,−2	.075
	4.2,−1	.717		3.2,−2	.032
	3.2,−1	.635	.70	3.2,−1	.977
	2.4,−1	.544		2.4,−1	.936
	1.8,−1	.447		1.8,−1	.861
				1.3,−1	.735
.35	1.3,0	.985		1.0,−1	.611
	1.0,0	.961		7.5,−2	.467
	7.5,−1	.914		5.6,−2	.328
	5.6,−1	.841		4.2,−2	.213
	4.2,−1	.751		3.2,−2	.130
	3.2,−1	.657		2.4,−2	.068
	2.4,−1	.554		1.8,−2	.031
	1.8,−1	.450			
	1.3,−1	.334	.80	2.4,−1	.981
	1.0,−1	.246		1.8,−1	.949
				1.3,−1	.880
.40	1.0,0	.983		1.0,−1	.802
	7.5,−1	.951		7.5,−2	.698
	5.6,−1	.891		5.6,−2	.585
	4.2,−1	.803		4.2,−2	.477
	3.2,−1	.701		3.2,−2	.382
	2.4,−1	.583		2.4,−2	.292
	1.8,−1	.464		1.8,−2	.212
	1.3,−1	.339		1.3,−2	.136
	1.0,−1	.247		1.0,−2	.086
	7.5,−2	.161		7.5,−3	.046

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.45$

[Pl. 49]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3,1	0.988	0.25	2.4,0	0.989
	1.0,1	.984		1.8,0	.969
	7.5,0	.979		1.3,0	.931
	5.6,0	.972		1.0,0	.887
	4.2,0	.963		7.5,−1	.829
				5.6,−1	.764
.10	7.5,0	.985		4.2,−1	.692
	5.6,0	.976		3.2,−1	.617
	4.2,0	.965		2.4,−1	.562
	3.2,0	.953			
	2.4,0	.937	.30	1.8,0	.989
	1.8,0	.917		1.3,0	.963
	1.3,0	.886		1.0,0	.925
				7.5,−1	.865
.15	4.2,0	.981		5.6,−1	.789
	3.2,0	.965		4.2,−1	.706
	2.4,0	.944		3.2,−1	.622
	1.8,0	.920		2.4,−1	.527
	1.3,0	.887		1.8,−1	.427
	1.0,0	.855			
	7.5,−1	.812	.35	1.3,0	.985
				1.0,0	.960
.20	3.2,0	.986		7.5,−1	.910
	2.4,0	.968		5.6,−1	.835
	1.8,0	.940		4.2,−1	.742
	1.3,0	.899		3.2,−1	.644
	1.0,0	.861		2.4,−1	.537
	7.5,−1	.814		1.8,−1	.430
	5.6,−1	.757		1.3,−1	.312
	4.2,−1	.691		1.0,−1	.223

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.45$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	1.0,0	0.982	0.60	4.2,−1	0.970
	7.5,−1	.949		3.2,−1	.923
	5.6,−1	.886		2.4,−1	.835
	4.2,−1	.795		1.8,−1	.709
	3.2,−1	.689		1.3,−1	.535
	2.4,−1	.567		1.0,−1	.390
	1.8,−1	.445		7.5,−2	.247
	1.3,−1	.316		5.6,−2	.134
	1.0,−1	.224		4.2,−2	.061
	7.5,−2	.139		3.2,−2	.024
.45	7.5,−1	.975	.70	3.2,−1	.976
	5.6,−1	.931		2.4,−1	.934
	4.2,−1	.854		1.8,−1	.856
	3.2,−1	.752		1.3,−1	.725
	2.4,−1	.621		1.0,−1	.597
	1.8,−1	.483		7.5,−2	.450
	1.3,−1	.335		5.6,−2	.312
	1.0,−1	.232		4.2,−2	.200
	7.5,−2	.141		3.2,−2	.121
	5.6,−2	.075		2.4,−2	.064
	4.2,−2	.034		1.8,−2	.029
			.80	2.4,−1	.981
.50	7.5,−1	.989		1.8,−1	.947
	5.6,−1	.962		1.3,−1	.876
	4.2,−1	.905		1.0,−1	.794
	3.2,−1	.817		7.5,−2	.688
	2.4,−1	.692		5.6,−2	.573
	1.8,−1	.545		4.2,−2	.466
	1.3,−1	.378		3.2,−2	.375
	1.0,−1	.258		2.4,−2	.288
	7.5,−2	.152		1.8,−2	.211
	5.6,−2	.078		1.3,−2	.136
	4.2,−2	.034		1.0,−2	.086
				7.5,−3	.046

$\theta_0=90°$; $\frac{\theta}{\theta_0}=0.50$

[Pl. 50]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3,1	0.988	0.35	7.5,−1	0.909
	1.0,1	.984		5.6,−1	.833
	7.5,0	.979		4.2,−1	.738
	5.6,0	.972		3.2,−1	.639
	4.2,0	.963		2.4,−1	.532
				1.8,−1	.423
.10	7.5,0	.985		1.3,−1	.304
	5.6,0	.975		1.0,−1	.215
	4.2,0	.964	.40	1.0,0	.982
	3.2,0	.952		7.5,−1	.948
	2.4,0	.936		5.6,−1	.885
	1.8,0	.916		4.2,−1	.793
	1.3,0	.885		3.2,−1	.686
				2.4,−1	.562
.15	4.2,0	.980		1.8,−1	.439
	3.2,0	.965		1.3,−1	.309
	2.4,0	.943		1.0,−1	.216
	1.8,0	.919		7.5,−2	.131
	1.3,0	.886			
	1.0,0	.853	.45	7.5,−1	.975
	7.5,−1	.810		5.6,−1	.930
				4.2,−1	.852
.20	3.2,0	.986		3.2,−1	.748
	2.4,0	.968		2.4,−1	.617
	1.8,0	.940		1.8,−1	.477
	1.3,0	.898		1.3,−1	.327
	1.0,0	.859		1.0,−1	.224
	7.5,−1	.811		7.5,−2	.134
	5.6,−1	.754		5.6,−2	.068
	4.2,−1	.687		4.2,−2	.029
.25	2.4,0	.988	.50	7.5,−1	.989
	1.8,0	.969		5.6,−1	.962
	1.3,0	.930		4.2,−1	.904
	1.0,0	.885		3.2,−1	.815
	7.5,−1	.827		2.4,−1	.688
	5.6,−1	.761		1.8,−1	.540
	4.2,−1	.689		1.3,−1	.371
	3.2,−1	.612		1.0,−1	.250
	2.4,−1	.520		7.5,−2	.145
				5.6,−2	.072
.30	1.8,0	.989		4.2,−2	.030
	1.3,0	.963			
	1.0,0	.924		4.2,−1	.970
	7.5,−1	.864	.60	3.2,−1	.922
	5.6,−1	.787		2.4,−1	.833
	4.2,−1	.702		1.8,−1	.705
	3.2,−1	.617		1.3,−1	.530
	2.4,−1	.522		1.0,−1	.384
	1.8,−1	.420		7.5,−2	.240
				5.6,−2	.128
	1.3,0	.985		4.2,−2	.057
.35	1.0,0	.960		3.2,−2	.021

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=90°;\ \frac{\theta}{\theta_0}=0.50$—Continued			
0.70	3.2, −1	0.976	0.80	2.4, −1	0.980
	2.4, −1	.933		1.8, −1	.946
	1.8, −1	.854		1.3, −1	.874
	1.3, −1	.722		1.0, −1	.792
	1.0, −1	.592		7.5, −2	.684
	7.5, −2	.444		5.6, −2	.570
	5.6, −2	.307		4.2, −2	.463
	4.2, −2	.196		3.2, −2	.372
	3.2, −2	.119		2.4, −2	.287
	2.4, −2	.063		1.8, −2	.211
	1.8, −2	.029		1.3, −2	.136
				1.0, −2	.086
				7.5, −3	.046
		$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.05$			
		[Pl. 51]			
0.05	4.2, 0	0.989	0.50	5.6, −1	0.990
				4.2, −1	.977
.10	4.2, 0	.990		3.2, −1	.960
	3.2, 0	.987		2.4, −1	.936
	2.4, 0	.983		1.8, −1	.909
				1.3, −1	.876
.15	3.2, 0	.990		1.0, −1	.848
	2.4, 0	.985		7.5, −2	.818
	1.8, 0	.979		5.6, −2	.786
	1.3, 0	.972		4.2, −2	.753
				3.2, −2	.718
.20	1.8, 0	.984		2.4, −2	.676
	1.3, 0	.975	.60	3.2, −1	.982
	1.0, 0	.967		2.4, −1	.964
	7.5, −1	.958		1.8, −1	.941
	5.6, −1	.947		1.3, −1	.908
				1.0, −1	.878
.25	1.3, 0	.982		7.5, −2	.841
	1.0, 0	.972		5.6, −2	.802
	7.5, −1	.961		4.2, −2	.761
	5.6, −1	.948		3.2, −2	.722
	4.2, −1	.935		2.4, −2	.677
				1.8, −2	.630
.30	1.3, 0	.990		1.3, −2	.570
	1.0, 0	.981		1.0, −2	.518
	7.5, −1	.968			
	5.6, −1	.953	.70	2.4, −1	.984
	4.2, −1	.937		1.8, −1	.969
	3.2, −1	.922		1.3, −1	.945
	2.4, −1	.904		1.0, −1	.921
				7.5, −2	.888
.35	1.0, 0	.989		5.6, −2	.848
	7.5, −1	.978		4.2, −2	.802
	5.6, −1	.962		3.2, −2	.755
	4.2, −1	.944		2.4, −2	.700
	3.2, −1	.926		1.8, −2	.642
	2.4, −1	.906		1.3, −2	.575
	1.8, −1	.886		1.0, −2	.519
	1.3, −1	.861		7.5, −3	.455
				5.6, −3	.387
.40	7.5, −1	.986		4.2, −3	.318
	5.6, −1	.973		3.2, −3	.253
	4.2, −1	.955	.80	1.8, −1	.988
	3.2, −1	.935		1.3, −1	.975
	2.4, −1	.912		1.0, −1	.959
	1.8, −1	.889		7.5, −2	.938
	1.3, −1	.862		5.6, −2	.910
	1.0, −1	.840		4.2, −2	.875
				3.2, −2	.834
.45	5.6, −1	.982		2.4, −2	.780
	4.2, −1	.967		1.8, −2	.717
	3.2, −1	.947		1.3, −2	.636
	2.4, −1	.923		1.0, −2	.564
	1.8, −1	.897		7.5, −3	.483
	1.3, −1	.867		5.6, −3	.401
	1.0, −1	.842		4.2, −3	.323
	7.5, −2	.815		3.2, −3	.254
	5.6, −2	.785		2.4, −3	.187
				1.8, −3	.127
		$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.10$			
		[Pl. 52]			
0.05	1.0, 1	0.990	0.15	2.4, 0	0.970
	7.5, 0	.987		1.8, 0	.959
	5.6, 0	.984		1.3, 0	.945
				1.0, 0	.932
.10	5.6, 0	.985			
	4.2, 0	.980	.20	2.4, 0	.982
	3.2, 0	.974		1.8, 0	.968
	2.4, 0	.967		1.3, 0	.950
	1.8, 0	.958		1.0, 0	.935
.15	4.2, 0	.988		7.5, −1	.916
	3.2, 0	.980		5.6, −1	.895

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.10$—Continued			
0.25	1.8, 0	0.982	0.50	1.0, −1	0.704
	1.3, 0	.964		7.5, −2	.647
	1.0, 0	.945		5.6, −2	.589
	7.5, −1	.922		4.2, −2	.530
	5.6, −1	.897		3.2, −2	.471
	4.2, −1	.871		2.4, −2	.406
	3.2, −1	.843			
			.60	4.2, −1	.984
.30	1.3, 0	.979		3.2, −1	.964
	1.0, 0	.962		2.4, −1	.930
	7.5, −1	.937		1.8, −1	.883
	5.6, −1	.907		1.3, −1	.819
	4.2, −1	.876		1.0, −1	.761
	3.2, −1	.846		7.5, −2	.691
	2.4, −1	.811		5.6, −2	.618
	1.8, −1	.774		4.2, −2	.546
				3.2, −2	.478
.35	1.0, 0	.978		2.4, −2	.408
	7.5, −1	.956		1.8, −2	.337
	5.6, −1	.925		1.3, −2	.258
	4.2, −1	.890		1.0, −2	.198
	3.2, −1	.854			
	2.4, −1	.815	.70	3.2, −1	.987
	1.8, −1	.776		2.4, −1	.969
	1.3, −1	.728		1.8, −1	.940
				1.3, −1	.892
.40	1.0, 0	.989		1.0, −1	.844
	7.5, −1	.973		7.5, −2	.781
	5.6, −1	.946		5.6, −2	.706
	4.2, −1	.911		4.2, −2	.623
	3.2, −1	.871		3.2, −2	.539
	2.4, −1	.827		2.4, −2	.447
	1.8, −1	.782		1.8, −2	.359
	1.3, −1	.730		1.3, −2	.266
	1.0, −1	.688		1.0, −2	.200
	7.5, −2	.640		7.5, −3	.137
				5.6, −3	.085
.45	7.5, −1	.986		4.2, −3	.047
	5.6, −1	.965			
	4.2, −1	.934	.80	1.8, −1	.976
	3.2, −1	.895		1.3, −1	.950
	2.4, −1	.848		1.0, −1	.920
	1.8, −1	.797		7.5, −2	.879
	1.3, −1	.738		5.6, −2	.825
	1.0, −1	.692		4.2, −2	.760
	7.5, −2	.641		3.2, −2	.685
	5.6, −2	.587		2.4, −2	.593
				1.8, −2	.490
.50	5.6, −1	.980		1.3, −2	.367
	4.2, −1	.955		1.0, −2	.272
	3.2, −1	.921		7.5, −3	.179
	2.4, −1	.874		5.6, −3	.104
	1.8, −1	.821		4.2, −3	.054
	1.3, −1	.756		3.2, −3	.025
		$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.15$			
		[Pl. 53]			
0.05	1.3, 1	0.988	0.30	1.8, 0	0.989
	1.0, 1	.985		1.3, 0	.970
	7.5, 0	.981		1.0, 0	.944
	5.6, 0	.976		7.5, −1	.907
				5.6, −1	.864
.10	7.5, 0	.986		4.2, −1	.818
	5.6, 0	.978		3.2, −1	.774
	4.2, 0	.970		2.4, −1	.724
	3.2, 0	.962		1.8, −1	.671
	2.4, 0	.951			
	1.8, 0	.938	.35	1.3, 0	.986
				1.0, 0	.968
.15	4.2, 0	.982		7.5, −1	.935
	3.2, 0	.971		5.6, −1	.890
	2.4, 0	.956		4.2, −1	.838
	1.8, 0	.940		3.2, −1	.786
	1.3, 0	.920		2.4, −1	.730
	1.0, 0	.901		1.8, −1	.673
	7.5, −1	.876		1.3, −1	.606
.20	3.2, 0	.987	.40	1.0, 0	.984
	2.4, 0	.973		7.5, −1	.961
	1.8, 0	.954		5.6, −1	.921
	1.3, 0	.927		4.2, −1	.869
	1.0, 0	.904		3.2, −1	.811
	7.5, −1	.877		2.4, −1	.747
	5.6, −1	.846		1.8, −1	.682
	4.2, −1	.810		1.3, −1	.609
				1.0, −1	.551
.25	2.4, 0	.989		7.5, −2	.486
	1.8, 0	.974			
	1.3, 0	.947	.45	7.5, −1	.979
	1.0, 0	.920		5.6, −1	.949
	7.5, −1	.886		4.2, −1	.903
	5.6, −1	.849		3.2, −1	.846
	4.2, −1	.811		2.4, −1	.777
	3.2, −1	.771		1.8, −1	.703

$\theta_0=105°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.45	1.3, −1	0.621	0.60	1.3, −2	0.092
	1.0, −1	.556		1.0, −2	.055
	7.5, −2	.488	.70	3.2, −1	.982
	5.6, −2	.418		2.4, −1	.955
.50	7.5, −1	.990		1.8, −1	.911
	5.6, −1	.970		1.3, −1	.843
	4.2, −1	.934		1.0, −1	.773
	3.2, −1	.884		7.5, −2	.684
	2.4, −1	.816		5.6, −2	.583
	1.8, −1	.738		4.2, −2	.475
	1.3, −1	.646		3.2, −2	.371
	1.0, −1	.573		2.4, −2	.268
	7.5, −2	.496		1.8, −2	.179
	5.6, −2	.421		1.3, −2	.101
	4.2, −2	.350		1.0, −2	.058
	3.2, −2	.283		7.5, −3	.027
	2.4, −2	.215	.80	2.4, −1	.985
				1.8, −1	.965
.60	4.2, −1	.976		1.3, −1	.926
	3.2, −1	.946		1.0, −1	.883
	2.4, −1	.897		7.5, −2	.824
	1.8, −1	.829		5.6, −2	.750
	1.3, −1	.737		4.2, −2	.663
	1.0, −1	.654		3.2, −2	.567
	7.5, −2	.558		2.4, −2	.456
	5.6, −2	.461		1.8, −2	.342
	4.2, −2	.371		1.3, −2	.221
	3.2, −2	.293		1.0, −2	.139
	2.4, −2	.218		7.5, −3	.072
	1.8, −2	.153		5.6, −3	.031

$\theta_0=105°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 54]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.8, 1	0.989	0.35	4.2, −1	0.791
	1.3, 1	.985		3.2, −1	.724
	1.0, 1	.981		2.4, −1	.652
	7.5, 0	.976		1.8, −1	.581
	5.6, 0	.969		1.3, −1	.499
	4.2, 0	.960		1.0, −1	.432
.10	1.0, 1	.990	.40	1.0, 0	.979
	7.5, 0	.982		7.5, −1	.949
	5.6, 0	.972		5.6, −1	.898
	4.2, 0	.962		4.2, −1	.831
	3.2, 0	.950		3.2, −1	.756
	2.4, 0	.937		2.4, −1	.674
	1.8, 0	.920		1.8, −1	.592
				1.3, −1	.503
.15	5.6, 0	.989		1.0, −1	.433
	4.2, 0	.977		7.5, −2	.359
	3.2, 0	.962			
	2.4, 0	.943	.45	7.5, −1	.973
	1.8, 0	.922		5.6, −1	.934
	1.3, 0	.896		4.2, −1	.875
	1.0, 0	.872		3.2, −1	.801
	7.5, −1	.840		2.4, −1	.712
				1.8, −1	.619
.20	3.2, 0	.983		1.3, −1	.517
	2.4, 0	.965		1.0, −1	.440
	1.8, 0	.940		7.5, −2	.361
	1.3, 0	.906		5.6, −2	.286
	1.0, 0	.876		4.2, −2	.217
	7.5, −1	.841			
	5.6, −1	.801	.50	7.5, −1	.987
	4.2, −1	.754		5.6, −1	.962
				4.2, −1	.915
.25	2.4, 0	.986		3.2, −1	.850
	1.8, 0	.966		2.4, −1	.762
	1.3, 0	.932		1.8, −1	.664
	1.0, 0	.896		1.3, −1	.549
	7.5, −1	.852		1.0, −1	.460
	5.6, −1	.805		7.5, −2	.370
	4.2, −1	.756		5.6, −2	.289
	3.2, −1	.705		4.2, −2	.217
	2.4, −1	.645		3.2, −2	.157
				2.4, −2	.102
.30	1.8, 0	.986			
	1.3, 0	.961	.60	4.2, −1	.969
	1.0, 0	.928		3.2, −1	.931
	7.5, −1	.880		2.4, −1	.866
	5.6, −1	.824		1.8, −1	.780
	4.2, −1	.765		1.3, −1	.663
	3.2, −1	.708		1.0, −1	.560
	2.4, −1	.645		7.5, −2	.446
	1.8, −1	.579		5.6, −2	.337
				4.2, −2	.242
.35	1.3, 0	.982		3.2, −2	.167
	1.0, 0	.958		2.4, −2	.105
	7.5, −1	.916		1.8, −2	.059
	5.6, −1	.858		1.3, −2	.026

$\theta_0=105°$; $\frac{\theta}{\theta_0}=0.20$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.70	3.2, −1	0.976	0.80	2.4, −1	0.981
	2.4, −1	.942		1.8, −1	.954
	1.8, −1	.886		1.3, −1	.905
	1.3, −1	.797		1.0, −1	.850
	1.0, −1	.710		7.5, −2	.776
	7.5, −2	.602		5.6, −2	.687
	5.6, −2	.482		4.2, −2	.586
	4.2, −2	.363		3.2, −2	.483
	3.2, −2	.256		2.4, −2	.370
	2.4, −2	.160		1.8, −2	.263
	1.8, −2	.087		1.3, −2	.160
	1.3, −2	.036		1.0, −2	.097
				7.5, −3	.050

$\theta_0=105°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 55]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.8, 1	0.987	0.40	1.8, −1	0.514
	1.3, 1	.982		1.3, −1	.413
	1.0, 1	.977		1.0, −1	.337
	7.5, 0	.971		7.5, −2	.259
	5.6, 0	.963			
	4.2, 0	.952	.45	1.0, 0	.990
				7.5, −1	.967
.10	1.0, 1	.988		5.6, −1	.921
	7.5, 0	.978		4.2, −1	.849
	5.6, 0	.966		3.2, −1	.761
	4.2, 0	.954		2.4, −1	.655
	3.2, 0	.940		1.8, −1	.546
	2.4, 0	.924		1.3, −1	.429
	1.8, 0	.904		1.0, −1	.344
				7.5, −2	.261
.15	5.6, 0	.986		5.6, −2	.189
	4.2, 0	.972		4.2, −2	.127
	3.2, 0	.954			
	2.4, 0	.931	.50	7.5, −1	.984
	1.8, 0	.907		5.6, −1	.954
	1.3, 0	.875		4.2, −1	.898
	1.0, 0	.846		3.2, −1	.819
	7.5, −1	.807		2.4, −1	.715
				1.8, −1	.599
.20	3.2, 0	.980		1.3, −1	.466
	2.4, 0	.958		1.0, −1	.367
	1.8, 0	.928		7.5, −2	.272
	1.3, 0	.887		5.6, −2	.192
	1.0, 0	.851		4.2, −2	.128
	7.5, −1	.809		3.2, −2	.081
	5.6, −1	.761		2.4, −2	.044
	4.2, −1	.706			
				5.6, −1	.988
			.60	4.2, −1	.963
.25	2.4, 0	.983		3.2, −1	.917
	1.8, 0	.959		2.4, −1	.839
	1.3, 0	.918		1.8, −1	.736
	1.0, 0	.875		1.3, −1	.599
	7.5, −1	.822		1.0, −1	.481
	5.6, −1	.766		7.5, −2	.357
	4.2, −1	.707		5.6, −2	.244
	3.2, −1	.646		4.2, −2	.154
	2.4, −1	.576		3.2, −2	.091
				2.4, −2	.047
.30	1.8, 0	.983			
	1.3, 0	.953		3.2, −1	.971
	1.0, 0	.913	.70	2.4, −1	.930
	7.5, −1	.856		1.8, −1	.862
	5.6, −1	.788		1.3, −1	.757
	4.2, −1	.718		1.0, −1	.656
	3.2, −1	.651		7.5, −2	.534
	2.4, −1	.577		5.6, −2	.406
	1.8, −1	.499		4.2, −2	.285
				3.2, −2	.186
.35	1.3, 0	.978		2.4, −2	.103
	1.0, 0	.950		1.8, −2	.048
	7.5, −1	.899			
	5.6, −1	.829		2.4, −1	.977
	4.2, −1	.749	.80	1.8, −1	.945
	3.2, −1	.669		1.3, −1	.886
	2.4, −1	.585		1.0, −1	.821
	1.8, −1	.502		7.5, −2	.736
	1.3, −1	.409		5.6, −2	.637
	1.0, −1	.336		4.2, −2	.531
				3.2, −2	.428
.40	1.0, 0	.975		2.4, −2	.323
	7.5, −1	.939		1.8, −2	.229
	5.6, −1	.877		1.3, −2	.141
	4.2, −1	.796		1.0, −2	.088
	3.2, −1	.708		7.5, −3	.046
	2.4, −1	.610			

$\theta_0 = 105°$; $\frac{\theta}{\theta_0} = 0.30$

[Pl. 56]

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
0.05	2.4, 1	0.989	0.40	3.2, −1	0.667
	1.8, 1	.985		2.4, −1	.557
	1.3, 1	.979		1.8, −1	.451
	1.0, 1	.974		1.3, −1	.341
	7.5, 0	.966		1.0, −1	.262
	5.6, 0	.957		7.5, −2	.186
	4.2, 0	.945	.45	1.0, 0	.988
.10	1.0, 1	.986		7.5, −1	.962
	7.5, 0	.975		5.6, −1	.909
	5.6, 0	.962		4.2, −1	.828
	4.2, 0	.947		3.2, −1	.727
	3.2, 0	.932		2.4, −1	.608
	2.4, 0	.913		1.8, −1	.486
	1.8, 0	.890		1.3, −1	.358
	1.3, 0	.857		1.0, −1	.269
.15	5.6, 0	.985		7.5, −2	.188
	4.2, 0	.968		5.6, −2	.122
	3.2, 0	.948		4.2, −2	.072
	2.4, 0	.922	.50	7.5, −1	.982
	1.8, 0	.893		5.6, −1	.947
	1.3, 0	.857		4.2, −1	.883
	1.0, 0	.824		3.2, −1	.794
	7.5, −1	.780		2.4, −1	.675
.20	3.2, 0	.977		1.8, −1	.544
	2.4, 0	.952		1.3, −1	.399
	1.8, 0	.917		1.0, −1	.294
	1.3, 0	.870		7.5, −2	.199
	1.0, 0	.830		5.6, −2	.125
	7.5, −1	.781		4.2, −2	.073
	5.6, −1	.727		3.2, −2	.039
	4.2, −1	.664	.60	5.6, −1	.987
.25	2.4, 0	.980		4.2, −1	.958
	1.8, 0	.954		3.2, −1	.905
	1.3, 0	.906		2.4, −1	.816
	1.0, 0	.857		1.8, −1	.699
	7.5, −1	.797		1.3, −1	.546
	5.6, −1	.733		1.0, −1	.419
	4.2, −1	.666		7.5, −2	.289
	3.2, −1	.597		5.6, −2	.180
	2.4, −1	.518		4.2, −2	.100
.30	1.8, 0	.981	.70	3.2, −2	.050
	1.3, 0	.946		4.2, −1	.989
	1.0, 0	.901		3.2, −1	.967
	7.5, −1	.835		2.4, −1	.920
	5.6, −1	.758		1.8, −1	.843
	4.2, −1	.679		1.3, −1	.724
	3.2, −1	.602		1.0, −1	.612
	2.4, −1	.519		7.5, −2	.481
	1.8, −1	.434		5.6, −2	.351
.35	1.3, 0	.975		4.2, −2	.236
	1.0, 0	.942		3.2, −2	.146
	7.5, −1	.885		2.4, −2	.077
	5.6, −1	.805		1.8, −2	.035
	4.2, −1	.713	.80	2.4, −1	.974
	3.2, −1	.623		1.8, −1	.937
	2.4, −1	.528		1.3, −1	.870
	1.8, −1	.436		1.0, −1	.797
	1.3, −1	.337		7.5, −2	.703
	1.0, −1	.261		5.6, −2	.599
.40	1.0, 0	.972		4.2, −2	.494
	7.5, −1	.930		3.2, −2	.396
	5.6, −1	.860		2.4, −2	.300
	4.2, −1	.767		1.8, −2	.216
				1.3, −2	.137
				1.0, −2	.087
				7.5, −3	.046

$\theta_0 = 105°$; $\frac{\theta}{\theta_0} = 0.35$

[Pl. 57]

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
0.05	2.4, 1	0.988	0.15	1.0, 0	0.806
	1.8, 1	.983		7.5, −1	.758
	1.3, 1	.977			
	1.0, 1	.971	.20	4.2, 0	.990
	7.5, 0	.963		3.2, 0	.974
	5.6, 0	.953		2.4, 0	.947
	4.2, 0	.940		1.8, 0	.909
.10	1.0, 1	.984		1.3, 0	.857
	7.5, 0	.972		1.0, 0	.812
	5.6, 0	.958		7.5, −1	.760
	4.2, 0	.942		5.6, −1	.699
	3.2, 0	.925		4.2, −1	.631
	2.4, 0	.904	.25	2.4, 0	.978
	1.8, 0	.879		1.8, 0	.949
	1.3, 0	.842		1.3, 0	.897
.15	5.6, 0	.983		1.0, 0	.842
	4.2, 0	.965		7.5, −1	.776
	3.2, 0	.942		5.6, −1	.706
	2.4, 0	.914		4.2, −1	.633
	1.8, 0	.882		3.2, −1	.558
	1.3, 0	.843		2.4, −1	.473

$\theta_0 = 105°$; $\frac{\theta}{\theta_0} = 0.35$—Continued

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
0.30	1.8, 0	0.979	0.50	4.2, −1	0.871
	1.3, 0	.941		3.2, −1	.773
	1.0, 0	.891		2.4, −1	.643
	7.5, −1	.818		1.8, −1	.502
	5.6, −1	.734		1.3, −1	.347
	4.2, −1	.647		1.0, −1	.240
	3.2, −1	.564		7.5, −2	.148
	2.4, −1	.474		5.6, −2	.082
	1.8, −1	.383		4.2, −2	.041
.35	1.3, 0	.973	.60	5.6, −1	.985
	1.0, 0	.937		4.2, −1	.954
	7.5, −1	.873		3.2, −1	.895
	5.6, −1	.785		2.4, −1	.798
	4.2, −1	.685		1.8, −1	.670
	3.2, −1	.586		1.3, −1	.505
	2.4, −1	.484		1.0, −1	.372
	1.8, −1	.386		7.5, −2	.242
	1.3, −1	.282		5.6, −2	.138
	1.0, −1	.206		4.2, −2	.068
				3.2, −2	.029
.40	1.3, 0	.990			
	1.0, 0	.969	.70	4.2, −1	.988
	7.5, −1	.923		3.2, −1	.964
	5.6, −1	.846		2.4, −1	.912
	4.2, −1	.744		1.8, −1	.827
	3.2, −1	.634		1.3, −1	.698
	2.4, −1	.514		1.0, −1	.578
	1.8, −1	.401		7.5, −2	.442
	1.3, −1	.286		5.6, −2	.314
	1.0, −1	.207		4.2, −2	.206
	7.5, −2	.134		3.2, −2	.126
				2.4, −2	.067
.45	1.0, 0	.987		1.8, −2	.030
	7.5, −1	.958			
	5.6, −1	.900	.80	2.4, −1	.971
	4.2, −1	.810		1.8, −1	.931
	3.2, −1	.700		1.3, −1	.857
	2.4, −1	.570		1.0, −1	.778
	1.8, −1	.439		7.5, −2	.679
	1.3, −1	.305		5.6, −2	.573
	1.0, −1	.215		4.2, −2	.470
	7.5, −2	.136		3.2, −2	.379
	5.6, −2	.078		2.4, −2	.291
	4.2, −2	.040		1.8, −2	.212
				1.3, −2	.136
.50	7.5, −1	.980		1.0, −2	.086
	5.6, −1	.942		7.5, −3	.046

$\theta_0 = 105°$; $\frac{\theta}{\theta_0} = 0.40$

[Pl. 58]

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
0.05	2.4, 1	0.987	0.30	1.8, 0	0.977
	1.8, 1	.982		1.3, 0	.937
	1.3, 1	.975		1.0, 0	.883
	1.0, 1	.969		7.5, −1	.806
	7.5, 0	.961		5.6, −1	.716
	5.6, 0	.950		4.2, −1	.624
	4.2, 0	.936		3.2, −1	.536
				2.4, −1	.442
.10	1.0, 1	.983		1.8, −1	.347
	7.5, 0	.970		1.3, −1	.243
	5.6, 0	.955			
	4.2, 0	.938	.35	1.3, 0	.971
	3.2, 0	.920		1.0, 0	.932
	2.4, 0	.898		7.5, −1	.864
	1.8, 0	.871		5.6, −1	.771
	1.3, 0	.832		4.2, −1	.664
				3.2, −1	.560
.15	5.6, 0	.982		2.4, −1	.452
	4.2, 0	.963		1.8, −1	.350
	3.2, 0	.938		1.3, −1	.244
	2.4, 0	.908		1.0, −1	.168
	1.8, 0	.874	.40	1.3, 0	.989
	1.3, 0	.832		1.0, 0	.967
	1.0, 0	.793		7.5, −1	.917
	7.5, −1	.742		5.6, −1	.835
				4.2, −1	.727
.20	4.2, 0	.989		3.2, −1	.610
	3.2, 0	.973		2.4, −1	.484
	2.4, 0	.943		1.8, −1	.365
	1.8, 0	.903		1.3, −1	.248
	1.3, 0	.848		1.0, −1	.169
	1.0, 0	.800		7.5, −1	.101
	7.5, −1	.744			
	5.6, −1	.680	.45	1.0, 0	.986
	4.2, −1	.607		7.5, −1	.956
				5.6, −1	.894
.25	2.4, 0	.977		4.2, −1	.798
	1.8, 0	.946		3.2, −1	.681
	1.3, 0	.890		2.4, −1	.542
	1.0, 0	.832		1.8, −1	.405
	7.5, −1	.761		1.3, −1	.267
	5.6, −1	.687		1.0, −1	.177
	4.2, −1	.609		7.5, −2	.103
	3.2, −1	.530		5.6, −2	.053
	2.4, −1	.440		4.2, −2	.023

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.40$—Continued					
0.50	7.5, −1	0.979	0.70	4.2, −1	0.987
	5.6, −1	.938		3.2, −1	.961
	4.2, −1	.863		2.4, −1	.906
	3.2, −1	.758		1.8, −1	.816
	2.4, −1	.620		1.3, −1	.679
	1.8, −1	.471		1.0, −1	.554
	1.3, −1	.311		7.5, −2	.416
	1.0, −1	.204		5.6, −2	.291
	7.5, −2	.115		4.2, −2	.190
	5.6, −2	.056		3.2, −2	.117
	4.2, −2	.024		2.4, −2	.063
				1.8, −2	.029
.60	5.6, −1	.984	.80	2.4, −1	.969
	4.2, −1	.951		1.8, −1	.926
	3.2, −1	.888		1.3, −1	.847
	2.4, −1	.784		1.0, −1	.764
	1.8, −1	.649		7.5, −2	.661
	1.3, −1	.476		5.6, −2	.556
	1.0, −1	.339		4.2, −2	.457
	7.5, −2	.210		3.2, −2	.371
	5.6, −2	.112		2.4, −2	.287
	4.2, −2	.051		1.8, −2	.211
	3.2, −2	.019		1.3, −2	.136
				1.0, −2	.086
				7.5, −3	.046
$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.45$ [Pl. 59]					
0.05	2.4, 1	0.987	0.40	7.5, −1	0.914
	1.8, 1	.981		5.6, −1	.829
	1.3, 1	.975		4.2, −1	.717
	1.0, 1	.968		3.2, −1	.596
	7.5, 0	.959		2.4, −1	.465
	5.6, 0	.948		1.8, −1	.344
	4.2, 0	.933		1.3, −1	.226
.10	1.0, 1	.983		1.0, −1	.148
	7.5, 0	.969		7.5, −2	.083
	5.6, 0	.953	.45	1.0, 0	.985
	4.2, 0	.935		7.5, −1	.954
	3.2, 0	.917		5.6, −1	.890
	2.4, 0	.894		4.2, −1	.790
	1.8, 0	.866		3.2, −1	.669
	1.3, 0	.825		2.4, −1	.526
				1.8, −1	.385
.15	5.6, 0	.981		1.3, −1	.245
	4.2, 0	.961		1.0, −1	.156
	3.2, 0	.936		7.5, −2	.085
	2.4, 0	.904		5.6, −2	.039
	1.8, 0	.870			
	1.3, 0	.826	.50	7.5, −1	.978
	1.0, 0	.785		5.6, −1	.936
	7.5, −1	.732		4.2, −1	.857
.20	4.2, 0	.989		3.2, −1	.749
	3.2, 0	.972		2.4, −1	.606
	2.4, 0	.941		1.8, −1	.453
	1.8, 0	.899		1.3, −1	.290
	1.3, 0	.842		1.0, −1	.183
	1.0, 0	.792		7.5, −2	.096
	7.5, −1	.734		5.6, −2	.043
	5.6, −1	.667	.60	5.6, −1	.984
	4.2, −1	.593		4.2, −1	.949
				3.2, −1	.884
.25	2.4, 0	.976		2.4, −1	.776
	1.8, 0	.943		1.8, −1	.636
	1.3, 0	.885		1.3, −1	.458
	1.0, 0	.825		1.0, −1	.320
	7.5, −1	.752		7.5, −2	.193
	5.6, −1	.675		5.6, −2	.099
	4.2, −1	.594		4.2, −2	.042
	3.2, −1	.513			
	2.4, −1	.421	.70	4.2, −1	.987
.30	1.8, 0	.976		3.2, −1	.960
	1.3, 0	.934		2.4, −1	.902
	1.0, 0	.879		1.8, −1	.809
	7.5, −1	.799		1.3, −1	.668
	5.6, −1	.706		1.0, −1	.539
	4.2, −1	.610		7.5, −2	.402
	3.2, −1	.519		5.6, −2	.279
	2.4, −1	.422		4.2, −2	.182
	1.8, −1	.325		3.2, −2	.113
	1.3, −1	.221		2.4, −2	.061
				1.8, −2	.029
.35	1.3, 0	.970	.80	2.4, −1	.968
	1.0, 0	.930		1.8, −1	.923
	7.5, −1	.859		1.3, −1	.842
	5.6, −1	.762		1.0, −1	.756
	4.2, −1	.652		7.5, −2	.651
	3.2, −1	.543		5.6, −2	.546
	2.4, −1	.433		4.2, −2	.450
	1.8, −1	.328		3.2, −2	.367
	1.3, −1	.221		2.4, −2	.286
	1.0, −1	.147		1.8, −2	.210
				1.3, −2	.136
.40	1.3, 0	.988		1.0, −2	.086
	1.0, 0	.965		7.5, −3	.046

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
$\theta_0=105°;\ \frac{\theta}{\theta_0}=0.50$ [Pl. 60]					
0.05	2.4, 1	0.987	0.40	7.5, −1	0.913
	1.8, 1	.981		5.6, −1	.827
	1.3, 1	.974		4.2, −1	.713
	1.0, 1	.968		3.2, −1	.591
	7.5, 0	.959		2.4, −1	.459
	5.6, 0	.947		1.8, −1	.337
	4.2, 0	.932		1.3, −1	.219
				1.0, −1	.141
.10	1.0, 1	.982		7.5, −2	.077
	7.5, 0	.969	.45	1.0, 0	.985
	5.6, 0	.953		7.5, −1	.953
	4.2, 0	.935		5.6, −1	.888
	3.2, 0	.916		4.2, −1	.787
	2.4, 0	.893		3.2, −1	.665
	1.8, 0	.864		2.4, −1	.520
	1.3, 0	.823		1.8, −1	.378
				1.3, −1	.238
.15	5.6, 0	.981		1.0, −1	.149
	4.2, 0	.961		7.5, −2	.079
	3.2, 0	.935		5.6, −2	.035
	2.4, 0	.903			
	1.8, 0	.868	.50	7.5, −1	.978
	1.3, 0	.824		5.6, −1	.935
	1.0, 0	.782		4.2, −1	.856
	7.5, −1	.729		3.2, −1	.745
				2.4, −1	.601
.20	4.2, 0	.988		1.8, −1	.446
	3.2, 0	.971		1.3, −1	.283
	2.4, 0	.940		1.0, −1	.176
	1.8, 0	.898		7.5, −2	.091
	1.3, 0	.840		5.6, −2	.038
	1.0, 0	.790			
	7.5, −1	.731	.60	5.6, −1	.984
	5.6, −1	.663		4.2, −1	.948
	4.2, −1	.588		3.2, −1	.882
				2.4, −1	.774
.25	2.4, 0	.976		1.8, −1	.632
	1.8, 0	.943		1.3, −1	.453
	1.3, 0	.884		1.0, −1	.314
	1.0, 0	.823		7.5, −2	.187
	7.5, −1	.749		5.6, −2	.095
	5.6, −1	.671		4.2, −2	.040
	4.2, −1	.590			
	3.2, −1	.507	.70	4.2, −1	.987
	2.4, −1	.414		3.2, −1	.959
				2.4, −1	.901
.30	1.8, 0	.976		1.8, −1	.806
	1.3, 0	.933		1.3, −1	.664
	1.0, 0	.877		1.0, −1	.535
	7.5, −1	.796		7.5, −2	.397
	5.6, −1	.702		5.6, −2	.275
	4.2, −1	.605		4.2, −2	.179
	3.2, −1	.513		3.2, −2	.112
	2.4, −1	.416		2.4, −2	.061
	1.8, −1	.318		1.8, −2	.029
	1.3, −1	.213			
			.80	3.2, −1	.990
.35	1.3, 0	.969		2.4, −1	.968
	1.0, 0	.929		1.8, −1	.923
	7.5, −1	.857		1.3, −1	.840
	5.6, −1	.759		1.0, −1	.753
	4.2, −1	.647		7.5, −2	.648
	3.2, −1	.538		5.6, −2	.543
	2.4, −1	.426		4.2, −2	.448
	1.8, −1	.321		3.2, −2	.366
	1.3, −1	.214		2.4, −2	.285
	1.0, −1	.140		1.8, −2	.210
				1.3, −2	.136
.40	1.3, 0	.988		1.0, −2	.086
	1.0, 0	.965		7.5, −3	.046
$\theta_0=120°;\ \frac{\theta}{\theta_0}=0.05$ [Pl. 61]					
0.05	7.5, 0	0.989	0.25	1.8, 0	0.986
	5.6, 0	.987		1.3, 0	.974
				1.0, 0	.962
.10	5.6, 0	.988		7.5, −1	.948
	4.2, 0	.984		5.6, −1	.934
	3.2, 0	.980		4.2, −1	.919
	2.4, 0	.975		3.2, −1	.904
.15	4.2, 0	.990	.30	1.3, 0	.984
	3.2, 0	.984		1.0, 0	.973
	2.4, 0	.978		7.5, −1	.957
	1.8, 0	.971		5.6, −1	.940
	1.3, 0	.962		4.2, −1	.922
	1.0, 0	.954		3.2, −1	.905
				2.4, −1	.886
.20	2.4, 0	.985			
	1.8, 0	.977	.35	1.0, 0	.983
	1.3, 0	.965		7.5, −1	.969
	1.0, 0	.956		5.6, −1	.951
	7.5, −1	.945		4.2, −1	.930
	5.6, −1	.933		3.2, −1	.910

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.05$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.35	2.4, −1	0.888	0.60	7.5, −2	0.819
	1.8, −1	.866		5.6, −2	.774
	1.3, −1	.840		4.2, −2	.729
				3.2, −2	.684
.40	7.5, −1	.980		2.4, −2	.635
	5.6, −1	.964		1.8, −2	.582
	4.2, −1	.943		1.3, −2	.517
	3.2, −1	.920		1.0, −2	.460
	2.4, −1	.895			
	1.8, −1	.870	.70	2.4, −1	.980
	1.3, −1	.841		1.8, −1	.962
	1.0, −1	.817		1.3, −1	.936
				1.0, −1	.908
.45	7.5, −1	.989		7.5, −2	.872
	5.6, −1	.976		5.6, −2	.827
	4.2, −1	.957		4.2, −2	.775
	3.2, −1	.934		3.2, −2	.721
	2.4, −1	.907		2.4, −2	.660
	1.8, −1	.879		1.8, −2	.596
	1.3, −1	.846		1.3, −2	.522
	1.0, −1	.819		1.0, −2	.462
	7.5, −2	.788		7.5, −3	.394
	5.6, −2	.755		5.6, −3	.323
				4.2, −3	.254
.50	5.6, −1	.985		3.2, −3	.191
	4.2, −1	.970			
	3.2, −1	.949	.80	1.8, −1	.984
	2.4, −1	.923		1.3, −1	.969
	1.8, −1	.893		1.0, −1	.953
	1.3, −1	.856		7.5, −2	.929
	1.0, −1	.826		5.6, −2	.898
	7.5, −2	.792		4.2, −2	.858
	5.6, −2	.756		3.2, −2	.811
	4.2, −2	.719		2.4, −2	.751
	3.2, −2	.680		1.8, −2	.680
	2.4, −2	.633		1.3, −2	.590
				1.0, −2	.511
.60	4.2, −1	.988		7.5, −3	.424
	3.2, −1	.975		5.6, −3	.338
	2.4, −1	.956		4.2, −3	.260
	1.8, −1	.929		3.2, −3	.193
	1.3, −1	.893		2.4, −3	.132
	1.0, −1	.859		1.8, −3	.082

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 62]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.8, 1	0.989	0.35	1.3, 0	0.984
	1.3, 1	.986		1.0, 0	.967
	1.0, 1	.983		7.5, −1	.939
	7.5, 0	.979		5.6, −1	.903
	5.6, 0	.974		4.2, −1	.863
				3.2, −1	.823
.10	7.5, 0	.984		2.4, −1	.781
	5.6, 0	.976		1.8, −1	.738
	4.2, 0	.969		1.3, −1	.688
	3.2, 0	.961			
	2.4, 0	.952	.40	1.0, 0	.983
	1.8, 0	.940		7.5, −1	.961
.15	5.6, 0	.989		5.6, −1	.928
	4.2, 0	.980		4.2, −1	.887
	3.2, 0	.969		3.2, −1	.843
	2.4, 0	.956		2.4, −1	.794
	1.8, 0	.942		1.8, −1	.745
	1.3, 0	.925		1.3, −1	.690
	1.0, 0	.910		1.0, −1	.645
				7.5, −2	.592
.20	3.2, 0	.985			
	2.4, 0	.971	.45	7.5, −1	.978
	1.8, 0	.954		5.6, −1	.952
	1.3, 0	.931		4.2, −1	.914
	1.0, 0	.913		3.2, −1	.870
	7.5, −1	.891		2.4, −1	.818
	5.6, −1	.867		1.8, −1	.762
.25	2.4, 0	.987		1.3, −1	.699
	1.8, 0	.972		1.0, −1	.649
	1.3, 0	.949		7.5, −2	.594
	1.0, 0	.925		5.6, −2	.535
	7.5, −1	.898			
	5.6, −1	.870	.50	7.5, −1	.989
	4.2, −1	.841		5.6, −1	.971
	3.2, −1	.811		4.2, −1	.940
				3.2, −1	.900
.30	1.8, 0	.987		2.4, −1	.849
	1.3, 0	.969		1.8, −1	.790
	1.0, 0	.946		1.3, −1	.720
	7.5, −1	.916		1.0, −1	.662
	5.6, −1	.882		7.5, −2	.600
	4.2, −1	.847		5.6, −2	.537
	3.2, −1	.813		4.2, −2	.474
	2.4, −1	.777		3.2, −2	.411
	1.8, −1	.737		2.4, −2	.343

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.10$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.60	4.2, −1	0.977	0.70	3.2, −2	0.485
	3.2, −1	.951		2.4, −2	.388
	2.4, −1	.912		1.8, −2	.297
	1.8, −1	.861		1.3, −2	.206
	1.3, −1	.791		1.0, −2	.144
	1.0, −1	.727		7.5, −3	.090
	7.5, −2	.650		5.6, −3	.050
	5.6, −2	.570			
	4.2, −2	.491	.80	2.4, −1	.986
	3.2, −2	.419		1.8, −1	.969
	2.4, −2	.345		1.3, −1	.940
	1.8, −2	.274		1.0, −1	.907
	1.3, −2	.197		7.5, −2	.862
	1.0, −2	.142		5.6, −2	.803
				4.2, −2	.730
.70	3.2, −1	.982		3.2, −2	.648
	2.4, −1	.960		2.4, −2	.548
	1.8, −1	.926		1.8, −2	.439
	1.3, −1	.874		1.3, −2	.314
	1.0, −1	.821		1.0, −2	.220
	7.5, −2	.751		7.5, −3	.133
	5.6, −2	.668		5.6, −3	.069
	4.2, −2	.577		4.2, −3	.030

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 63]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	2.4, 1	0.988	0.40	1.0, 0	0.975
	1.8, 1	.984		7.5, −1	.943
	1.3, 1	.980		5.6, −1	.895
	1.0, 1	.975		4.2, −1	.834
	7.5, 0	.969		3.2, −1	.770
	5.6, 0	.962		2.4, −1	.700
	4.2, 0	.953		1.8, −1	.631
				1.3, −1	.555
.10	1.0, 1	.985		1.0, −1	.494
	7.5, 0	.976		7.5, −2	.427
	5.6, 0	.965			
	4.2, 0	.954	.45	1.0, 0	.988
	3.2, 0	.943		7.5, −1	.968
	2.4, 0	.929		5.6, −1	.929
	1.8, 0	.913		4.2, −1	.875
.15	5.6, 0	.984		3.2, −1	.810
	4.2, 0	.971		2.4, −1	.734
	3.2, 0	.954		1.8, −1	.655
	2.4, 0	.935		1.3, −1	.568
	1.8, 0	.915		1.0, −1	.500
	1.3, 0	.890		7.5, −2	.428
	1.0, 0	.868		5.6, −2	.357
	7.5, −1	.839			
			.50	7.5, −1	.983
.20	3.2, 0	.978		5.6, −1	.957
	2.4, 0	.958		4.2, −1	.912
	1.8, 0	.932		3.2, −1	.854
	1.3, 0	.899		2.4, −1	.779
	1.0, 0	.872		1.8, −1	.695
	7.5, −1	.840		1.3, −1	.596
	5.6, −1	.805		1.0, −1	.518
	4.2, −1	.766		7.5, −2	.437
				5.6, −2	.360
.25	2.4, 0	.981		4.2, −2	.287
	1.8, 0	.960		3.2, −2	.222
	1.3, 0	.924		2.4, −2	.158
	1.0, 0	.890			
	7.5, −1	.851	.60	5.6, −1	.988
	5.6, −1	.809		4.2, −1	.966
	4.2, −1	.767		3.2, −1	.929
	3.2, −1	.724		2.4, −1	.871
	2.4, −1	.674		1.8, −1	.797
				1.3, −1	.697
.30	1.8, 0	.982		1.0, −1	.608
	1.3, 0	.954		7.5, −2	.506
	1.0, 0	.921		5.6, −2	.403
	7.5, −1	.876		4.2, −2	.310
	5.6, −1	.826		3.2, −2	.232
	4.2, −1	.776		2.4, −2	.161
	3.2, −1	.727		1.8, −2	.104
	2.4, −1	.675		1.3, −2	.055
	1.8, −1	.619		1.0, −2	.029
.35	1.3, 0	.977	.70	3.2, −1	.973
	1.0, 0	.952		2.4, −1	.941
	7.5, −1	.911		1.8, −1	.892
	5.6, −1	.857		1.3, −1	.816
	4.2, −1	.799		1.0, −1	.741
	3.2, −1	.741		7.5, −2	.645
	2.4, −1	.681		5.6, −2	.536
	1.8, −1	.621		4.2, −2	.422
	1.3, −1	.552		3.2, −2	.316
	1.0, −1	.493		2.4, −2	.214

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=120°;\ \frac{\theta}{\theta_0}=0.15$—Continued			
0.70	1.8, −2	0.131	0.80	5.6, −2	0.721
	1.3, −2	.065		4.2, −2	.627
	1.0, −2	.032		3.2, −2	.527
				2.4, −2	.413
.80	2.4, −1	.979		1.8, −2	.301
	1.8, −1	.955		1.3, −2	.187
	1.3, −1	.912		1.0, −2	.114
	1.0, −1	.865		7.5, −3	.058
	7.5, −2	.801		5.6, −3	.024
		$\theta_0=120°;\ \frac{\theta}{\theta_0}=0.20$			
		[Pl. 64]			
0.05	3.2, 1	0.990	0.40	2.4, −1	0.616
	2.4, 1	.985		1.8, −1	.530
	1.8, 1	.980		1.3, −1	.439
	1.3, 1	.974		1.0, −1	.369
	1.0, 1	.968		7.5, −2	.296
	7.5, 0	.960			
	5.6, 0	.950	.45	1.0, 0	.985
	4.2, 0	.939		7.5, −1	.958
				5.6, −1	.909
.10	1.3, 1	.990		4.2, −1	.838
	1.0, 1	.981		3.2, −1	.755
	7.5, 0	.969		2.4, −1	.659
	5.6, 0	.955		1.8, −1	.560
	4.2, 0	.940		1.3, −1	.455
	3.2, 0	.926		1.0, −1	.376
	2.4, 0	.908		7.5, −2	.298
	1.8, 0	.887		5.6, −2	.225
				4.2, −2	.161
.15	5.6, 0	.980			
	4.2, 0	.962	.50	7.5, −1	.979
	3.2, 0	.941		5.6, −1	.944
	2.4, 0	.916		4.2, −1	.886
	1.8, 0	.890		3.2, −1	.811
	1.3, 0	.858		2.4, −1	.715
	1.0, 0	.829		1.8, −1	.610
	7.5, −1	.792		1.3, −1	.489
				1.0, −1	.398
.20	4.2, 0	.987		7.5, −2	.308
	3.2, 0	.971		5.6, −2	.229
	2.4, 0	.945		4.2, −2	.161
	1.8, 0	.912		3.2, −2	.108
	1.3, 0	.870		2.4, −2	.063
	1.0, 0	.834			
	7.5, −1	.794	.60	5.6, −1	.984
	5.6, −1	.749		4.2, −1	.955
	4.2, −1	.699		3.2, −1	.908
				2.4, −1	.834
.25	2.4, 0	.975		1.8, −1	.739
	1.8, 0	.948		1.3, −1	.615
	1.3, 0	.902		1.0, −1	.507
	1.0, 0	.858		7.5, −2	.389
	7.5, −1	.807		5.6, −2	.279
	5.6, −1	.754		4.2, −2	.187
	4.2, −1	.700		3.2, −2	.118
	3.2, −1	.646		2.4, −2	.066
	2.4, −1	.583		1.8, −2	.033
.30	1.8, 0	.976	.70	4.2, −1	.987
	1.3, 0	.941		3.2, −1	.965
	1.0, 0	.898		2.4, −1	.923
	7.5, −1	.840		1.8, −1	.860
	5.6, −1	.776		1.3, −1	.765
	4.2, −1	.711		1.0, −1	.672
	3.2, −1	.650		7.5, −2	.558
	2.4, −1	.584		5.6, −2	.435
	1.8, −1	.516		4.2, −2	.315
				3.2, −2	.211
.35	1.3, 0	.970		2.4, −2	.123
	1.0, 0	.938		1.8, −2	.060
	7.5, −1	.884		1.3, −2	.021
	5.6, −1	.816			
	4.2, −1	.740	.80	2.4, −1	.973
	3.2, −1	.668		1.8, −1	.941
	2.4, −1	.592		1.3, −1	.886
	1.8, −1	.518		1.0, −1	.828
	1.3, −1	.435		7.5, −2	.749
	1.0, −1	.368		5.6, −2	.656
				4.2, −2	.552
.40	1.3, 0	.988		3.2, −2	.448
	1.0, 0	.967		2.4, −2	.339
	7.5, −1	.926		1.8, −2	.240
	5.6, −1	.864		1.3, −2	.147
	4.2, −1	.786		1.0, −2	.090
	3.2, −1	.704		7.5, −3	.047

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=120°;\ \frac{\theta}{\theta_0}=0.25$			
		[Pl. 65]			
0.05	3.2, 1	0.988	0.40	5.6, −1	0.836
	2.4, 1	.982		4.2, −1	.743
	1.8, 1	.976		3.2, −1	.646
	1.3, 1	.968		2.4, −1	.543
	1.0, 1	.961		1.8, −1	.446
	7.5, 0	.952		1.3, −1	.345
	5.6, 0	.940		1.0, −1	.272
	4.2, 0	.926		7.5, −2	.200
.10	1.3, 1	.988	.45	1.0, 0	.982
	1.0, 1	.977		7.5, −1	.949
	7.5, 0	.963		5.6, −1	.890
	5.6, 0	.946		4.2, −1	.805
	4.2, 0	.928		3.2, −1	.707
	3.2, 0	.911		2.4, −1	.593
	2.4, 0	.889		1.8, −1	.480
	1.8, 0	.864		1.3, −1	.362
	1.3, 0	.829		1.0, −1	.280
				7.5, −2	.202
.15	7.5, 0	.990		5.6, −2	.136
	5.6, 0	.976		4.2, −2	.085
	4.2, 0	.954			
	3.2, 0	.929	.50	7.5, −1	.974
	2.4, 0	.899		5.6, −1	.933
	1.8, 0	.867		4.2, −1	.863
	1.3, 0	.830		3.2, −1	.773
	1.0, 0	.795		2.4, −1	.660
	7.5, −1	.751		1.8, −1	.537
				1.3, −1	.402
.20	4.2, 0	.985		1.0, −1	.304
	3.2, 0	.965		7.5, −2	.213
	2.4, 0	.934		5.6, −2	.140
	1.8, 0	.894		4.2, −2	.085
	1.3, 0	.843		3.2, −2	.048
	1.0, 0	.801			
	7.5, −1	.753	.60	5.6, −1	.981
	5.6, −1	.699		4.2, −1	.946
	4.2, −1	.640		3.2, −1	.889
				2.4, −1	.801
.25	3.2, 0	.989		1.8, −1	.689
	2.4, 0	.970		1.3, −1	.546
	1.8, 0	.937		1.0, −1	.426
	1.3, 0	.882		7.5, −2	.302
	1.0, 0	.830		5.6, −2	.194
	7.5, −1	.768		4.2, −2	.112
	5.6, −1	.705		3.2, −2	.059
	4.2, −1	.642		2.4, −2	.026
	3.2, −1	.578			
	2.4, −1	.505	.70	4.2, −1	.985
				3.2, −1	.958
.30	1.8, 0	.971		2.4, −1	.908
	1.3, 0	.929		1.8, −1	.832
	1.0, 0	.877		1.3, −1	.720
	7.5, −1	.808		1.0, −1	.615
	5.6, −1	.731		7.5, −2	.490
	4.2, −1	.654		5.6, −2	.363
	3.2, −1	.583		4.2, −2	.247
	2.4, −1	.507		3.2, −2	.155
	1.8, −1	.429		2.4, −2	.083
				1.8, −2	.037
.35	1.8, 0	.990			
	1.3, 0	.964	.80	3.2, −1	.989
	1.0, 0	.925		2.4, −1	.968
	7.5, −1	.861		1.8, −1	.930
	5.6, −1	.779		1.3, −1	.864
	4.2, −1	.689		1.0, −1	.796
	3.2, −1	.603		7.5, −2	.708
	2.4, −1	.516		5.6, −2	.607
	1.8, −1	.432		4.2, −2	.502
	1.3, −1	.341		3.2, −2	.403
	1.0, −1	.271		2.4, −2	.305
				1.8, −2	.218
.40	1.3, 0	.985		1.3, −2	.137
	1.0, 0	.960		1.0, −2	.087
	7.5, −1	.911		7.5, −3	.046
		$\theta_0=120°;\ \frac{\theta}{\theta_0}=0.30$			
		[Pl. 66]			
0.05	3.2, 1	0.986	0.10	3.2, 0	0.898
	2.4, 1	.979		2.4, 0	.873
	1.8, 1	.972		1.8, 0	.844
	1.3, 1	.964		1.3, 0	.804
	1.0, 1	.956			
	7.5, 0	.945	.15	7.5, 0	.988
	5.6, 0	.932		5.6, 0	.972
	4.2, 0	.916		4.2, 0	.948
				3.2, 0	.919
.10	1.3, 1	.986		2.4, 0	.884
	1.0, 1	.974		1.8, 0	.848
	7.5, 0	.957		1.3, 0	.805
	5.6, 0	.938		1.0, 0	.766
	4.2, 0	.918		7.5, −1	.716

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.30$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.20	4.2,0	0.982	0.45	3.2,−1	0.666
	3.2,0	.960		2.4,−1	.539
	2.4,0	.925		1.8,−1	.415
	1.8,0	.879		1.3,−1	.291
	1.3,0	.821		1.0,−1	.208
	1.0,0	.773		7.5,−2	.136
	7.5,−1	.718		5.6,−2	.081
	5.6,−1	.657		4.2,−2	.043
	4.2,−1	.591			
			.50	7.5,−1	.970
.25	3.2,0	.988		5.6,−1	.923
	2.4,0	.966		4.2,−1	.844
	1.8,0	.928		3.2,−1	.742
	1.3,0	.866		2.4,−1	.613
	1.0,0	.805		1.8,−1	.478
	7.5,−1	.735		1.3,−1	.333
	5.6,−1	.664		1.0,−1	.234
	4.2,−1	.592		7.5,−2	.147
	3.2,−1	.521		5.6,−2	.084
	2.4,−1	.442		4.2,−2	.044
.30	2.4,0	.989	.60	5.6,−1	.978
	1.8,0	.967		4.2,−1	.939
	1.3,0	.918		3.2,−1	.873
	1.0,0	.860		2.4,−1	.773
	7.5,−1	.781		1.8,−1	.647
	5.6,−1	.693		1.3,−1	.490
	4.2,−1	.607		1.0,−1	.365
	3.2,−1	.527		7.5,−2	.241
	2.4,−1	.443		5.6,−2	.140
	1.8,−1	.360		4.2,−2	.071
				3.2,−2	.031
.35	1.8,0	.988			
	1.3,0	.959	.70	4.2,−1	.982
	1.0,0	.914		3.2,−1	.952
	7.5,−1	.841		2.4,−1	.895
	5.6,−1	.747		1.8,−1	.809
	4.2,−1	.646		1.3,−1	.684
	3.2,−1	.549		1.0,−1	.570
	2.4,−1	.453		7.5,−2	.440
	1.8,−1	.363		5.6,−2	.316
	1.3,−1	.268		4.2,−2	.209
	1.0,−1	.199		3.2,−2	.128
				2.4,−2	.068
.40	1.3,0	.983		1.8,−2	.031
	1.0,0	.955			
	7.5,−1	.898	.80	3.2,−1	.987
	5.6,−1	.813		2.4,−1	.963
	4.2,−1	.707		1.8,−1	.920
	3.2,−1	.598		1.3,−1	.845
	2.4,−1	.483		1.0,−1	.770
	1.8,−1	.377		7.5,−2	.675
	1.3,−1	.273		5.6,−2	.573
	1.0,−1	.200		4.2,−2	.472
	7.5,−2	.134		3.2,−2	.381
				2.4,−2	.292
.45	1.0,0	.979		1.8,−2	.212
	7.5,−1	.942		1.3,−2	.136
	5.6,−1	.874		1.0,−2	.086
	4.2,−1	.777		7.5,−3	.046

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.35$

[Pl. 67]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2,1	0.985	0.20	2.4,0	0.917
	2.4,1	.977		1.8,0	.867
	1.8,1	.969		1.3,0	.803
	1.3,1	.960		1.0,0	.750
	1.0,1	.951		7.5,−1	.690
	7.5,0	.939		5.6,−1	.624
	5.6,0	.925		4.2,−1	.552
	4.2,0	.907			
.10	1.3,1	.984	.25	3.2,0	.986
	1.0,1	.971		2.4,0	.963
	7.5,0	.953		1.8,0	.921
	5.6,0	.932		1.3,0	.852
	4.2,0	.910		1.0,0	.786
	3.2,0	.887		7.5,−1	.709
	2.4,0	.861		5.6,−1	.631
	1.8,0	.829		4.2,−1	.554
	1.3,0	.785		3.2,−1	.477
				2.4,−1	.393
.15	7.5,0	.987			
	5.6,0	.969	.30	2.4,0	.988
	4.2,0	.943		1.8,0	.964
	3.2,0	.910		1.3,0	.910
	2.4,0	.873		1.0,0	.846
	1.8,0	.833		7.5,−1	.759
	1.3,0	.786		5.6,−1	.663
	1.0,0	.743		4.2,−1	.569
	7.5,−1	.688		3.2,−1	.483
				2.4,−1	.394
.20	4.2,0	.981		1.8,−1	.307
	3.2,0	.956		1.3,−1	.215

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.35$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.35	1.8,0	0.987	0.50	1.0,−1	0.184
	1.3,0	.955		7.5,−2	.104
	1.0,0	.905		5.6,−2	.052
	7.5,−1	.825		4.2,−2	.022
	5.6,−1	.722			
	4.2,−1	.611	.60	5.6,−1	.976
	3.2,−1	.507		4.2,−1	.933
	2.4,−1	.404		3.2,−1	.860
	1.8,−1	.310		2.4,−1	.751
	1.3,−1	.215		1.8,−1	.615
	1.0,−1	.149		1.3,−1	.449
				1.0,−1	.320
.40	1.3,0	.981		7.5,−2	.200
	1.0,0	.950		5.6,−2	.108
	7.5,−1	.888		4.2,−2	.049
	5.6,−1	.794			
	4.2,−1	.678	.70	4.2,−1	.981
	3.2,−1	.559		3.2,−1	.948
	2.4,−1	.437		2.4,−1	.884
	1.8,−1	.326		1.8,−1	.790
	1.3,−1	.220		1.3,−1	.655
	1.0,−1	.150		1.0,−1	.536
	7.5,−2	.091		7.5,−2	.406
				5.6,−2	.287
.45	1.0,0	.977		4.2,−2	.188
	7.5,−1	.936		3.2,−2	.117
	5.6,−1	.862		2.4,−2	.063
	4.2,−1	.755		1.8,−2	.029
	3.2,−1	.634			
	2.4,−1	.497	.80	3.2,−1	.986
	1.8,−1	.366		2.4,−1	.959
	1.3,−1	.239		1.8,−1	.911
	1.0,−1	.158		1.3,−1	.831
	7.5,−2	.093		1.0,−1	.750
	5.6,−2	.048		7.5,−2	.652
				5.6,−2	.551
.50	7.5,−1	.967		4.2,−2	.455
	5.6,−1	.915		3.2,−2	.370
	4.2,−1	.828		2.4,−2	.287
	3.2,−1	.716		1.8,−2	.211
	2.4,−1	.577		1.3,−2	.136
	1.8,−1	.433		1.0,−2	.086
	1.3,−1	.283		7.5,−3	.046

$\theta_0=120°$; $\frac{\theta}{\theta_0}=0.40$

[Pl. 68]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2,1	0.984	0.30	2.4,0	0.987
	2.4,1	.976		1.8,0	.961
	1.8,1	.967		1.3,0	.904
	1.3,1	.957		1.0,0	.835
	1.0,1	.948		7.5,−1	.743
	7.5,0	.935		5.6,−1	.641
	5.6,0	.920		4.2,−1	.542
	4.2,0	.901		3.2,−1	.451
				2.4,−1	.359
.10	1.3,1	.983		1.8,−1	.271
	1.0,1	.969		1.3,−1	.179
	7.5,0	.950			
	5.6,0	.927	.35	1.8,0	.986
	4.2,0	.903		1.3,0	.952
	3.2,0	.880		1.0,0	.899
	2.4,0	.851		7.5,−1	.813
	1.8,0	.817		5.6,−1	.704
	1.3,0	.771		4.2,−1	.586
.15	7.5,0	.986		3.2,−1	.477
	5.6,0	.967		2.4,−1	.370
	4.2,0	.939		1.8,−1	.274
	3.2,0	.904		1.3,−1	.179
	2.4,0	.864		1.0,−1	.117
	1.8,0	.822			
	1.3,0	.771	.40	1.3,0	.980
	1.0,0	.726		1.0,0	.947
	7.5,−1	.667		7.5,−1	.881
				5.6,−1	.780
.20	4.2,0	.979		4.2,−1	.657
	3.2,0	.954		3.2,−1	.532
	2.4,0	.912		2.4,−1	.404
	1.8,0	.858		1.8,−1	.290
	1.3,0	.790		1.3,−1	.184
	1.0,0	.733		1.0,−1	.118
	7.5,−1	.670		7.5,−2	.064
	5.6,−1	.600			
	4.2,−1	.524	.45	1.0,0	.976
.25	3.2,0	.986		7.5,−1	.932
	2.4,0	.960		5.6,−1	.852
	1.8,0	.915		4.2,−1	.739
	1.3,0	.842		3.2,−1	.610
	1.0,0	.771		2.4,−1	.466
	7.5,−1	.690		1.8,−1	.331
	5.6,−1	.607		1.3,−1	.203
	4.2,−1	.526		1.0,−1	.126
	3.2,−1	.445		7.5,−2	.067
	2.4,−1	.358		5.6,−2	.030

$\theta_0=120°; \frac{\theta}{\theta_0}=0.40$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.50	7.5, −1	0.965	0.70	1.8, −1	0.777
	5.6, −1	.909		1.3, −1	.635
	4.2, −1	.817		1.0, −1	.513
	3.2, −1	.698		7.5, −2	.384
	2.4, −1	.551		5.6, −2	.270
	1.8, −1	.400		4.2, −2	.178
	1.3, −1	.249		3.2, −2	.112
	1.0, −1	.152		2.4, −2	.061
	7.5, −2	.078		1.8, −2	.029
	5.6, −2	.034			
.60	5.6, −1	.974	.80	3.2, −1	.985
	4.2, −1	.928		2.4, −1	.957
	3.2, −1	.851		1.8, −1	.906
	2.4, −1	.734		1.3, −1	.820
	1.8, −1	.591		1.0, −1	.736
	1.3, −1	.420		7.5, −2	.637
	1.0, −1	.291		5.6, −2	.538
	7.5, −2	.175		4.2, −2	.447
	5.6, −2	.090		3.2, −2	.366
	4.2, −2	.039		2.4, −2	.285
				1.8, −2	.210
.70	4.2, −1	.979		1.3, −2	.136
	3.2, −1	.944		1.0, −2	.086
	2.4, −1	.877		7.5, −3	.046

$\theta_0=120°; \frac{\theta}{\theta_0}=0.45$

[Pl. 69]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 1	0.990	0.35	1.0, 0	0.895
	3.2, 1	.983		7.5, −1	.806
	2.4, 1	.975		5.6, −1	.693
	1.8, 1	.966		4.2, −1	.571
	1.3, 1	.956		3.2, −1	.459
	1.0, 1	.946		2.4, −1	.349
	7.5, 0	.933		1.8, −1	.252
	5.6, 0	.917		1.3, −1	.159
	4.2, 0	.897		1.0, −1	.099
.10	1.3, 1	.983	.40	1.3, 0	.979
	1.0, 1	.968		1.0, 0	.945
	7.5, 0	.948		7.5, −1	.876
	5.6, 0	.924		5.6, −1	.772
	4.2, 0	.900		4.2, −1	.644
	3.2, 0	.875		3.2, −1	.515
	2.4, 0	.846		2.4, −1	.384
	1.8, 0	.810		1.8, −1	.269
	1.3, 0	.762		1.3, −1	.164
				1.0, −1	.100
.15	7.5, 0	.986		7.5, −2	.051
	5.6, 0	.966			
	4.2, 0	.936	.45	1.0, 0	.975
	3.2, 0	.901		7.5, −1	.929
	2.4, 0	.859		5.6, −1	.847
	1.8, 0	.815		4.2, −1	.729
	1.3, 0	.763		3.2, −1	.596
	1.0, 0	.715		2.4, −1	.448
	7.5, −1	.655		1.8, −1	.310
				1.3, −1	.183
.20	4.2, 0	.978		1.0, −1	.108
	3.2, 0	.952		7.5, −2	.053
	2.4, 0	.908		5.6, −2	.021
	1.8, 0	.852			
	1.3, 0	.782	.50	1.0, 0	.990
	1.0, 0	.723		7.5, −1	.964
	7.5, −1	.657		5.6, −1	.906
	5.6, −1	.585		4.2, −1	.810
	4.2, −1	.507		3.2, −1	.686
				2.4, −1	.535
.25	3.2, 0	.985		1.8, −1	.381
	2.4, 0	.959		1.3, −1	.229
	1.8, 0	.912		1.0, −1	.135
	1.3, 0	.836		7.5, −2	.064
	1.0, 0	.763		5.6, −2	.025
	7.5, −1	.678			
	5.6, −1	.593	.60	5.6, −1	.973
	4.2, −1	.509		4.2, −1	.925
	3.2, −1	.426		3.2, −1	.845
	2.4, −1	.337		2.4, −1	.725
				1.8, −1	.577
.30	2.4, 0	.986		1.3, −1	.403
	1.8, 0	.960		1.0, −1	.275
	1.3, 0	.900		7.5, −2	.161
	1.0, 0	.829		5.6, −2	.081
	7.5, −1	.733		4.2, −2	.034
	5.6, −1	.628			
	4.2, −1	.525	.70	4.2, −1	.978
	3.2, −1	.432		3.2, −1	.942
	2.4, −1	.338		2.4, −1	.872
	1.8, −1	.249		1.8, −1	.769
	1.3, −1	.158		1.3, −1	.624
				1.0, −1	.500
.35	1.8, 0	.985		7.5, −2	.372
	1.3, 0	.950		5.6, −2	.262

$\theta_0=120°; \frac{\theta}{\theta_0}=0.45$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.70	4.2, −2	0.174	0.80	7.5, −2	0.628
	3.2, −2	.110		5.6, −2	.531
	2.4, −2	.061		4.2, −2	.443
	1.8, −2	.029		3.2, −2	.364
				2.4, −2	.285
.80	3.2, −1	.984		1.8, −2	.210
	2.4, −1	.955		1.3, −2	.136
	1.8, −1	.902		1.0, −2	.086
	1.3, −1	.814		7.5, −3	.046
	1.0, −1	.727			

$\theta_0=120°; \frac{\theta}{\theta_0}=0.50$

[Pl. 70]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 1	0.990	0.40	1.3, 0	0.979
	3.2, 1	.983		1.0, 0	.944
	2.4, 1	.975		7.5, −1	.875
	1.8, 1	.966		5.6, −1	.769
	1.3, 1	.955		4.2, −1	.640
	1.0, 1	.945		3.2, −1	.510
	7.5, 0	.932		2.4, −1	.377
	5.6, 0	.916		1.8, −1	.262
	4.2, 0	.896		1.3, −1	.157
				1.0, −1	.094
.10	1.3, 1	.982		7.5, −2	.046
	1.0, 1	.968			
	7.5, 0	.947	.45	1.0, 0	.974
	5.6, 0	.923		7.5, −1	.928
	4.2, 0	.899		5.6, −1	.845
	3.2, 0	.874		4.2, −1	.726
	2.4, 0	.844		3.2, −1	.591
	1.8, 0	.808		2.4, −1	.442
	1.3, 0	.759		1.8, −1	.304
				1.3, −1	.177
.15	7.5, 0	.986		1.0, −1	.102
	5.6, 0	.966		7.5, −2	.049
	4.2, 0	.936			
	3.2, 0	.899	.50	1.0, 0	.990
	2.4, 0	.857		7.5, −1	.964
	1.8, 0	.813		5.6, −1	.905
	1.3, 0	.760		4.2, −1	.807
	1.0, 0	.712		3.2, −1	.682
	7.5, −1	.651		2.4, −1	.530
				1.8, −1	.375
.20	4.2, 0	.978		1.3, −1	.223
	3.2, 0	.951		1.0, −1	.129
	2.4, 0	.907		7.5, −2	.060
	1.8, 0	.851		5.6, −2	.022
	1.3, 0	.779			
	1.0, 0	.720	.60	5.6, −1	.973
	7.5, −1	.653		4.2, −1	.924
	5.6, −1	.580		3.2, −1	.844
	4.2, −1	.501		2.4, −1	.721
				1.8, −1	.573
.25	3.2, 0	.985		1.3, −1	.397
	2.4, 0	.958		1.0, −1	.269
	1.8, 0	.911		7.5, −2	.157
	1.3, 0	.834		5.6, −2	.078
	1.0, 0	.760		4.2, −2	.033
	7.5, −1	.675			
	5.6, −1	.588	.70	4.2, −1	.978
	4.2, −1	.503		3.2, −1	.941
	3.2, −1	.420		2.4, −1	.870
	2.4, −1	.330		1.8, −1	.766
				1.3, −1	.620
.30	2.4, 0	.986		1.0, −1	.496
	1.8, 0	.959		7.5, −2	.369
	1.3, 0	.899		5.6, −2	.259
	1.0, 0	.827		4.2, −2	.173
	7.5, −1	.730		3.2, −2	.110
	5.6, −1	.623		2.4, −2	.061
	4.2, −1	.520		1.8, −2	.029
	3.2, −1	.426			
	2.4, −1	.332	.80	3.2, −1	.984
	1.8, −1	.242		2.4, −1	.954
	1.3, −1	.152		1.8, −1	.901
				1.3, −1	.812
.35	1.8, 0	.985		1.0, −1	.725
	1.3, 0	.949		7.5, −2	.625
	1.0, 0	.894		5.6, −2	.529
	7.5, −1	.804		4.2, −2	.442
	5.6, −1	.689		3.2, −2	.364
	4.2, −1	.566		2.4, −2	.285
	3.2, −1	.453		1.8, −2	.210
	2.4, −1	.343		1.3, −2	.136
	1.8, −1	.245		1.0, −2	.086
	1.3, −1	.152		7.5, −3	.046
	1.0, −1	.093			

$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 71]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3,1	0.989	0.45	1.3,−1	0.826
	1.0,1	.987		1.0,−1	.796
	7.5,0	.984		7.5,−2	.763
	5.6,0	.981		5.6,−2	.726
.10	7.5,0	.988	.50	5.6,−1	.980
	5.6,0	.983		4.2,−1	.962
	4.2,0	.978		3.2,−1	.940
	3.2,0	.973		2.4,−1	.911
	2.4,0	.967		1.8,−1	.878
				1.3,−1	.838
.15	4.2,0	.985		1.0,−1	.804
	3.2,0	.978		7.5,−2	.766
	2.4,0	.970		5.6,−2	.727
	1.8,0	.962		4.2,−2	.685
	1.3,0	.952		3.2,−2	.642
	1.0,0	.943		2.4,−2	.592
.20	3.2,0	.989	.60	4.2,−1	.984
	2.4,0	.980		3.2,−1	.970
	1.8,0	.969		2.4,−1	.947
	1.3,0	.956		1.8,−1	.919
	1.0,0	.945		1.3,−1	.879
	7.5,−1	.933		1.0,−1	.842
	5.6,−1	.919		7.5,−2	.796
				5.6,−2	.747
.25	1.8,0	.981		4.2,−2	.696
	1.3,0	.966		3.2,−2	.647
	1.0,0	.952		2.4,−2	.593
	7.5,−1	.937		1.8,−2	.536
	5.6,−1	.921		1.3,−2	.466
	4.2,−1	.905		1.0,−2	.406
	3.2,−1	.888			
			.70	3.2,−1	.988
.30	1.3,0	.978		2.4,−1	.975
	1.0,0	.965		1.8,−1	.956
	7.5,−1	.947		1.3,−1	.927
	5.6,−1	.928		1.0,−1	.896
	4.2,−1	.908		7.5,−2	.856
	3.2,−1	.890		5.6,−2	.806
	2.4,−1	.869		4.2,−2	.749
				3.2,−2	.689
.35	1.3,0	.989		2.4,−2	.621
	1.0,0	.978		1.8,−2	.551
	7.5,−1	.961		1.3,−2	.472
	5.6,−1	.940		1.0,−2	.408
	4.2,−1	.917		7.5,−3	.338
	3.2,−1	.895		5.6,−3	.267
	2.4,−1	.872		4.2,−3	.200
	1.8,−1	.848		3.2,−3	.142
	1.3,−1	.819			
			.80	1.8,−1	.981
.40	1.0,0	.988		1.3,−1	.965
	7.5,−1	.974		1.0,−1	.946
	5.6,−1	.955		7.5,−2	.920
	4.2,−1	.931		5.6,−2	.885
	3.2,−1	.907		4.2,−2	.841
	2.4,−1	.879		3.2,−2	.789
	1.8,−1	.852		2.4,−2	.722
	1.3,−1	.820		1.8,−2	.645
	1.0,−1	.794		1.3,−2	.546
				1.0,−2	.462
.45	7.5,−1	.985		7.5,−3	.371
	5.6,−1	.969		5.6,−3	.283
	4.2,−1	.947		4.2,−3	.206
	3.2,−1	.922		3.2,−3	.144
	2.4,−1	.893		2.4,−3	.090
	1.8,−1	.862		1.8,−3	.050

$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 72]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	2.4,1	0.987	0.15	1.0,0	0.888
	1.8,1	.983		7.5,−1	.866
	1.3,1	.979			
	1.0,1	.975	.20	4.2,0	.989
	7.5,0	.969		3.2,0	.978
	5.6,0	.963		2.4,0	960
				1.8,0	.938
.10	1.0,1	.984		1.3,0	.912
	7.5,0	.976		1.0,0	.891
	5.6,0	.966		7.5,−1	.867
	4.2,0	.956		5.6,−1	.841
	3.2,0	.947		4.2,−1	.812
	2.4,0	.936			
	1.8,0	.923	.25	2.4,0	.981
				1.8,0	.962
.15	5.6,0	.984		1.3,0	.933
	4.2,0	.971		1.0,0	.906
	3.2,0	.957		7.5,−1	.875
	2.4,0	.941		5.6,−1	.844
	1.8,0	.924		4.2,−1	.813
	1.3,0	.905		3.2,−1	.781

$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.10$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.30	1.8,0	0.981	0.50	7.5,−2	0.556
	1.3,0	.958		5.6,−2	.488
	1.0,0	.931		4.2,−2	.421
	7.5,−1	.895		3.2,−2	.356
	5.6,−1	.857		2.4,−2	.287
	4.2,−1	.819			
	3.2,−1	.783	.60	5.6,−1	.988
	2.4,−1	.744		4.2,−1	.969
	1.8,−1	.702		3.2,−1	.940
				2.4,−1	.896
.35	1.3,0	.977		1.8,−1	.841
	1.0,0	.956		1.3,−1	.764
	7.5,−1	.923		1.0,−1	.694
	5.6,−1	.881		7.5,−2	.611
	4.2,−1	.837		5.6,−2	.524
	3.2,−1	.794		4.2,−2	.440
	2.4,−1	.749		3.2,−2	.365
	1.8,−1	.704		2.4,−2	.289
	1.3,−1	.650		1.8,−2	.219
				1.3,−2	.148
.40	1.3,0	.990		1.0,−2	.099
	1.0,0	.975			
	7.5,−1	.949	.70	3.2,−1	.976
	5.6,−1	.911		2.4,−1	.951
	4.2,−1	.865		1.8,−1	.913
	3.2,−1	.817		1.3,−1	.857
	2.4,−1	.764		1.0,−1	.799
	1.8,−1	.711		7.5,−2	.723
	1.3,−1	.652		5.6,−2	.632
	1.0,−1	.604		4.2,−2	.534
	7.5,−2	.547		3.2,−2	.437
				2.4,−2	.335
.45	1.0,0	.988		1.8,−2	.243
	7.5,−1	.970		1.3,−2	.156
	5.6,−1	.939		1.0,−2	.102
	4.2,−1	.896		7.5,−3	.057
	3.2,−1	.847		5.6,−3	.027
	2.4,−1	.790			
	1.8,−1	.730	.80	2.4,−1	.982
	1.3,−1	.663		1.8,−1	.963
	1.0,−1	.608		1.3,−1	.930
	7.5,−2	.549		1.0,−1	.895
	5.6,−2	.486		7.5,−2	.845
				5.6,−2	.781
.50	7.5,−1	.984		4.2,−2	.702
	5.6,−1	.961		3.2,−2	.614
	4.2,−1	.926		2.4,−2	.508
	3.2,−1	.881		1.8,−2	.395
	2.4,−1	.825		1.3,−2	.270
	1.8,−1	.761		1.0,−2	.180
	1.3,−1	.685		7.5,−3	.101
	1.0,−1	.623		5.6,−3	.047

$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 73]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2,1	0.987	0.25	3.2,0	0.989
	2.4,1	.981		2.4,0	.972
	1.8,1	.976		1.8,0	.944
	1.3,1	.969		1.3,0	.901
	1.0,1	.963		1.0,0	.862
	7.5,0	.955		7.5,−1	.817
	5.6,0	.945		5.6,−1	.772
	4.2,0	.934		4.2,−1	.727
				3.2,−1	.682
.10	1.3,1	.987		2.4,−1	.629
	1.0,1	.977			
	7.5,0	.964	.30	2.4,0	.990
	5.6,0	.950		1.8,0	.973
	4.2,0	.936		1.3,0	.938
	3.2,0	.922		1.0,0	.898
	2.4,0	.905		7.5,−1	.847
	1.8,0	.886		5.6,−1	.791
				4.2,−1	.736
.15	7.5,0	.989		3.2,−1	.685
	5.6,0	.976		2.4,−1	.630
	4.2,0	.957		1.8,−1	.572
	3.2,0	.936			
	2.4,0	.913	.35	1.8,0	.989
	1.8,0	.889		1.3,0	.967
	1.3,0	.861		1.0,0	.935
	1.0,0	.836		7.5,−1	.887
	7.5,−1	.804		5.6,−1	.826
				4.2,−1	.762
.20	4.2,0	.984		3.2,−1	.701
	3.2,0	.967		2.4,−1	.637
	2.4,0	.941		1.8,−1	.574
	1.8,0	.910		1.3,−1	.502
	1.3,0	.871		1.0,−1	.441
	1.0,0	.840			
	7.5,−1	.806	.40	1.3,0	.985
	5.6,−1	.768		1.0,0	.964
	4.2,−1	.726		7.5,−1	.925

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°;\ \frac{\theta}{\theta_0}=0.15$—Continued			
0.40	5.6, −1	0.869	0.60	1.8, −1	0.768
	4.2, −1	.802		1.3, −1	.661
	3.2, −1	.733		1.0, −1	.566
	2.4, −1	.658		7.5, −2	.458
	1.8, −1	.585		5.6, −2	.351
	1.3, −1	.505		4.2, −2	.257
	1.0, −1	.442		3.2, −2	.181
	7.5, −2	.372		2.4, −2	.117
				1.8, −2	.069
.45	1.0, 0	.982		1.3, −2	.032
	7.5, −1	.955			
	5.6, −1	.910	.70	4.2, −1	.986
	4.2, −1	.848		3.2, −1	.965
	3.2, −1	.777		2.4, −1	.928
	2.4, −1	.695		1.8, −1	.873
	1.8, −1	.611		1.3, −1	.792
	1.3, −1	.519		1.0, −1	.712
	1.0, −1	.448		7.5, −2	.609
	7.5, −2	.374		5.6, −2	.494
	5.6, −2	.302		4.2, −2	.376
	4.2, −2	.232		3.2, −2	.270
				2.4, −2	.172
.50	7.5, −1	.976		1.8, −2	.096
	5.6, −1	.943		1.3, −2	.041
	4.2, −1	.891			
	3.2, −1	.826	.80	3.2, −1	.990
	2.4, −1	.745		2.4, −1	.973
	1.8, −1	.655		1.8, −1	.945
	1.3, −1	.550		1.3, −1	.899
	1.0, −1	.468		1.0, −1	.849
	7.5, −2	.384		7.5, −2	.780
	5.6, −2	.305		5.6, −2	.694
	4.2, −2	.233		4.2, −2	.596
	3.2, −2	.171		3.2, −2	.493
	2.4, −2	.114		2.4, −2	.379
				1.8, −2	.271
.60	5.6, −1	.982		1.3, −2	.166
	4.2, −1	.955		1.0, −2	.100
	3.2, −1	.912		7.5, −3	.051
	2.4, −1	.848		5.6, −3	.021

$\theta_0=135°;\ \frac{\theta}{\theta_0}=0.20$

[Pl. 74]

0.05	4.2, 1	0.989	0.25	3.2, −1	0.593
	3.2, 1	.983		2.4, −1	.529
	2.4, 1	.976			
	1.8, 1	.968	.30	2.4, 0	.987
	1.3, 1	.960		1.8, 0	.964
	1.0, 1	.952		1.3, 0	.919
	7.5, 0	.942		1.0, 0	.868
	5.6, 0	.929		7.5, −1	.802
	4.2, 0	.915		5.6, −1	.731
				4.2, −1	.662
.10	1.3, 1	.983		3.2, −1	.598
	1.0, 1	.970		2.4, −1	.530
	7.5, 0	.953		1.8, −1	.460
	5.6, 0	.935	.35	1.8, 0	.986
	4.2, 0	.917		1.3, 0	.957
	3.2, 0	.899		1.0, 0	.916
	2.4, 0	.878		7.5, −1	.853
	1.8, 0	.853		5.6, −1	.776
	1.3, 0	.820		4.2, −1	.694
				3.2, −1	.617
.15	7.5, 0	.986		2.4, −1	.538
	5.6, 0	.969		1.8, −1	.463
	4.2, 0	.945		1.3, −1	.380
	3.2, 0	.918		1.0, −1	.313
	2.4, 0	.887	.40	1.3, 0	.981
	1.8, 0	.856		1.0, 0	.953
	1.3, 0	.820		7.5, −1	.903
	1.0, 0	.788		5.6, −1	.831
	7.5, −1	.748		4.2, −1	.745
				3.2, −1	.657
.20	4.2, 0	.979		2.4, −1	.564
	3.2, 0	.957		1.8, −1	.476
	2.4, 0	.924		1.3, −1	.384
	1.8, 0	.883		1.0, −1	.314
	1.3, 0	.834		7.5, −2	.242
	1.0, 0	.794			
	7.5, −1	.749	.45	1.0, 0	.977
	5.6, −1	.701		7.5, −1	.942
	4.2, −1	.648		5.6, −1	.883
.25				4.2, −1	.803
	3.2, 0	.985		3.2, −1	.714
	2.4, 0	.963		2.4, −1	.611
	1.8, 0	.927		1.8, −1	.508
	1.3, 0	.872		1.3, −1	.400
	1.0, 0	.821		1.0, −1	.321
	7.5, −1	.764		7.5, −2	.245
	5.6, −1	.707		5.6, −2	.176
	4.2, −1	.650		4.2, −2	.117

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°;\ \frac{\theta}{\theta_0}=0.20$—Continued			
0.50	7.5, −1	0.969	0.70	4.2, −1	0.981
	5.6, −1	.926		3.2, −1	.955
	4.2, −1	.859		2.4, −1	.906
	3.2, −1	.776		1.8, −1	.837
	2.4, −1	.673		1.3, −1	.736
	1.8, −1	.562		1.0, −1	.639
	1.3, −1	.437		7.5, −2	.520
	1.0, −1	.344		5.6, −2	.395
	7.5, −2	.255		4.2, −2	.276
	5.6, −2	.179		3.2, −2	.178
	4.2, −2	.118		2.4, −2	.098
	3.2, −2	.073		1.8, −2	.045
	2.4, −2	.038			
			.80	3.2, −1	.986
.60	5.6, −1	.977		2.4, −1	.965
	4.2, −1	.941		1.8, −1	.929
	3.2, −1	.886		1.3, −1	.870
	2.4, −1	.805		1.0, −1	.808
	1.8, −1	.704		7.5, −2	.726
	1.3, −1	.573		5.6, −2	.629
	1.0, −1	.461		4.2, −2	.524
	7.5, −2	.341		3.2, −2	.422
	5.6, −2	.232		2.4, −2	.319
	4.2, −2	.144		1.8, −2	.226
	3.2, −2	.083		1.3, −2	.140
	2.4, −2	.041		1.0, −2	.088
				7.5, −3	.046

$\theta_0=135°;\ \frac{\theta}{\theta_0}=0.25$

[Pl. 75]

0.05	4.2, 1	0.987	0.35	1.8, 0	0.983
	3.2, 1	.979		1.3, 0	.948
	2.4, 1	.971		1.0, 0	.899
	1.8, 1	.962		7.5, −1	.824
	1.3, 1	.951		5.6, −1	.732
	1.0, 1	.942		4.2, −1	.635
	7.5, 0	.930		3.2, −1	.545
	5.6, 0	.915		2.4, −1	.456
	4.2, 0	.898		1.8, −1	.373
				1.3, −1	.285
.10	1.3, 1	.979		1.0, −1	.218
	1.0, 1	.964	.40	1.3, 0	.977
	7.5, 0	.944		1.0, 0	.944
	5.6, 0	.922		7.5, −1	.884
	4.2, 0	.900		5.6, −1	.797
	3.2, 0	.878		4.2, −1	.695
	2.4, 0	.853		3.2, −1	.592
	1.8, 0	.823		2.4, −1	.485
	1.3, 0	.784		1.8, −1	.387
				1.3, −1	.289
.15	7.5, 0	.983		1.0, −1	.220
	5.6, 0	.963		7.5, −2	.153
	4.2, 0	.934			
	3.2, 0	.901	.45	1.0, 0	.973
	2.4, 0	.864		7.5, −1	.931
	1.8, 0	.827		5.6, −1	.860
	1.3, 0	.784		4.2, −1	.764
	1.0, 0	.746		3.2, −1	.658
	7.5, −1	.698		2.4, −1	.539
				1.8, −1	.424
.20	4.2, 0	.975		1.3, −1	.307
	3.2, 0	.949		1.0, −1	.227
	2.4, 0	.909		7.5, −2	.155
	1.8, 0	.859		5.6, −2	.098
	1.3, 0	.800		4.2, −2	.055
	1.0, 0	.753			
	7.5, −1	.700	.50	1.0, 0	.988
	5.6, −1	.643		7.5, −1	.963
	4.2, −1	.581		5.6, −1	.911
				4.2, −1	.831
.25	3.2, 0	.982		3.2, −1	.732
	2.4, 0	.956		2.4, −1	.611
	1.8, 0	.913		1.8, −1	.485
	1.3, 0	.846		1.3, −1	.348
	1.0, 0	.785		1.0, −1	.252
	7.5, −1	.717		7.5, −2	.167
	5.6, −1	.650		5.6, −2	.101
	4.2, −1	.583		4.2, −2	.056
	3.2, −1	.518		3.2, −2	.028
	2.4, −1	.445			
			.60	5.6, −1	.972
.30	2.4, 0	.984		4.2, −1	.929
	1.8, 0	.957		3.2, −1	.863
	1.3, 0	.903		2.4, −1	.767
	1.0, 0	.841		1.8, −1	.649
	7.5, −1	.762		1.3, −1	.501
	5.6, −1	.678		1.0, −1	.381
	4.2, −1	.597		7.5, −2	.259
	3.2, −1	.523		5.6, −2	.156
	2.4, −1	.446		4.2, −2	.083
	1.8, −1	.370		3.2, −2	.039

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.25$—Continued			
0.70	4.2, −1	0.978	0.80	3.2, −1	0.984
	3.2, −1	.945		2.4, −1	.958
	2.4, −1	.888		1.8, −1	.915
	1.8, −1	.806		1.3, −1	.845
	1.3, −1	.688		1.0, −1	.774
	1.0, −1	.580		7.5, −2	.684
	7.5, −2	.455		5.6, −2	.584
	5.6, −2	.330		4.2, −2	.482
	3.2, −2	.220		3.2, −2	.387
	4.2, −2	.136		2.4, −2	.295
	2.4, −2	.072		1.8, −2	.214
	1.8, −2	.032		1.3, −2	.136
				1.0, −2	.086
				7.5, −3	.046
		$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.30$			
		[Pl. 76]			
0.05	4.2, 1	0.985	0.40	7.5, −1	0.867
	3.2, 1	.976		5.6, −1	.768
	2.4, 1	.966		4.2, −1	.653
	1.8, 1	.956		3.2, −1	.538
	1.3, 1	.944		2.4, −1	.422
	1.0, 1	.934		1.8, −1	.318
	7.5, 0	.920		1.3, −1	.219
	5.6, 0	.903		1.0, −1	.154
	4.2, 0	.883		7.5, −2	.096
.10	1.3, 1	.976			
	1.0, 1	.959	.45	1.3, 0	.990
	7.5, 0	.936		1.0, 0	.969
	5.6, 0	.911		7.5, −1	.921
	4.2, 0	.886		5.6, −1	.840
	3.2, 0	.861		4.2, −1	.731
	2.4, 0	.832		3.2, −1	.612
	1.8, 0	.798		2.4, −1	.481
	1.3, 0	.753		1.8, −1	.357
				1.3, −1	.238
.15	7.5, 0	.980		1.0, −1	.162
	5.6, 0	.957		7.5, −2	.098
	4.2, 0	.924		5.6, −2	.053
	3.2, 0	.887		4.2, −2	.025
	2.4, 0	.845			
	1.8, 0	.803	.50	1.0, 0	.986
	1.3, 0	.754		7.5, −1	.957
	1.0, 0	.710		5.6, −1	.898
	7.5, −1	.656		4.2, −1	.807
				3.2, −1	.695
.20	5.6, 0	.990		2.4, −1	.561
	4.2, 0	.972		1.8, −1	.424
	3.2, 0	.941		1.3, −1	.282
	2.4, 0	.895		1.0, −1	.188
	1.8, 0	.839		7.5, −2	.110
	1.3, 0	.772		5.6, −2	.057
	1.0, 0	.718		4.2, −2	.026
	7.5, −1	.658			
	5.6, −1	.595	.60	5.6, −1	.968
	4.2, −1	.526		4.2, −1	.919
				3.2, −1	.844
.25	3.2, 0	.980		2.4, −1	.735
	2.4, 0	.949		1.8, −1	.604
	1.8, 0	.900		1.3, −1	.446
	1.3, 0	.824		1.0, −1	.323
	1.0, 0	.755		7.5, −2	.205
	7.5, −1	.678		5.6, −2	.113
	5.6, −1	.602		4.2, −2	.053
	4.2, −1	.528		3.2, −2	.021
	3.2, −1	.456			
	2.4, −1	.378	.70	4.2, −1	.975
				3.2, −1	.938
.30	2.4, 0	.982		2.4, −1	.872
	1.8, 0	.951		1.8, −1	.780
	1.3, 0	.889		1.3, −1	.651
	1.0, 0	.819		1.0, −1	.536
	7.5, −1	.729		7.5, −2	.410
	5.6, −1	.634		5.6, −2	.291
	4.2, −1	.543		4.2, −2	.192
	3.2, −1	.462		3.2, −2	.119
	2.4, −1	.379		2.4, −2	.064
	1.8, −1	.299		1.8, −2	.029
	1.3, −1	.214			
.35	1.8, 0	.981	.80	3.2, −1	.981
	1.3, 0	.941		2.4, −1	.952
	1.0, 0	.885		1.8, −1	.904
	7.5, −1	.799		1.3, −1	.825
	5.6, −1	.694		1.0, −1	.748
	4.2, −1	.585		7.5, −2	.654
	3.2, −1	.486		5.6, −2	.555
	2.4, −1	.390		4.2, −2	.458
	1.8, −1	.302		3.2, −2	.372
	1.3, −1	.214		2.4, −2	.288
	1.0, −1	.152		1.8, −2	.211
				1.3, −2	.136
.40	1.3, 0	.973		1.0, −2	.086
	1.0, 0	.936		7.5, −3	.046

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.35$			
		[Pl. 77]			
0.05	4.2, 1	0.983	0.40	1.3, 0	0.971
	3.2, 1	.974		1.0, 0	.929
	2.4, 1	.963		7.5, −1	.853
	1.8, 1	.952		5.6, −1	.745
	1.3, 1	.939		4.2, −1	.620
	1.0, 1	.927		3.2, −1	.496
	7.5, 0	.912		2.4, −1	.373
	5.6, 0	.893		1.8, −1	.267
	4.2, 0	.871		1.3, −1	.170
				1.0, −1	.110
.10	1.8, 1	.989		7.5, −2	.062
	1.3, 1	.974			
	1.0, 1	.955	.45	1.3, 0	.989
	7.5, 0	.930		1.0, 0	.965
	5.6, 0	.902		7.5, −1	.913
	4.2, 0	.874		5.6, −1	.824
	3.2, 0	.847		4.2, −1	.705
	2.4, 0	.815		3.2, −1	.576
	1.8, 0	.778		2.4, −1	.436
	1.3, 0	.729		1.8, −1	.308
				1.3, −1	.190
.15	7.5, 0	.978		1.0, −1	.118
	5.6, 0	.953		7.5, −2	.064
	4.2, 0	.917		5.6, −2	.030
	3.2, 0	.875			
	2.4, 0	.829	.50	1.0, 0	.985
	1.8, 0	.783		7.5, −1	.953
	1.3, 0	.730		5.6, −1	.888
	1.0, 0	.682		4.2, −1	.788
	7.5, −1	.623		3.2, −1	.666
				2.4, −1	.522
.20	5.6, 0	.989		1.8, −1	.378
	4.2, 0	.969		1.3, −1	.235
	3.2, 0	.935		1.0, −1	.145
	2.4, 0	.885		7.5, −2	.075
	1.8, 0	.823		5.6, −2	.033
	1.3, 0	.749			
	1.0, 0	.690	.60	7.5, −1	.990
	7.5, −1	.625		5.6, −1	.965
	5.6, −1	.556		4.2, −1	.911
	4.2, −1	.483		3.2, −1	.828
				2.4, −1	.710
.25	3.2, 0	.978		1.8, −1	.570
	2.4, 0	.944		1.3, −1	.406
	1.8, 0	.890		1.0, −1	.283
	1.3, 0	.807		7.5, −2	.172
	1.0, 0	.731		5.6, −2	.089
	7.5, −1	.647		4.2, −2	.039
	5.6, −1	.564			
	4.2, −1	.485	.70	4.2, −1	.972
	3.2, −1	.409		3.2, −1	.931
	2.4, −1	.328		2.4, −1	.859
				1.8, −1	.759
.30	2.4, 0	.980		1.3, −1	.622
	1.8, 0	.946		1.0, −1	.505
	1.3, 0	.878		7.5, −2	.381
	1.0, 0	.801		5.6, −2	.270
	7.5, −1	.702		4.2, −2	.179
	5.6, −1	.599		3.2, −2	.112
	4.2, −1	.501		2.4, −2	.061
	3.2, −1	.415		1.8, −2	.029
	2.4, −1	.329			
	1.8, −1	.248	.80	3.2, −1	.979
	1.3, −1	.165		2.4, −1	.948
				1.8, −1	.894
.35	1.8, 0	.979		1.3, −1	.809
	1.3, 0	.935		1.0, −1	.728
	1.0, 0	.873		7.5, −2	.633
	7.5, −1	.779		5.6, −2	.537
	5.6, −1	.664		4.2, −2	.447
	4.2, −1	.546		3.2, −2	.366
	3.2, −1	.441		2.4, −2	.285
	2.4, −1	.340		1.8, −2	.210
	1.8, −1	.251		1.3, −2	.136
	1.3, −1	.166		1.0, −2	.086
	1.0, −1	.109		7.5, −3	.046
		$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.40$			
		[Pl. 78]			
0.05	4.2, 1	0.982	0.10	1.0, 1	0.952
	3.2, 1	.972		7.5, 0	.925
	2.4, 1	.961		5.6, 0	.895
	1.8, 1	.949		4.2, 0	.866
	1.3, 1	.935		3.2, 0	.837
	1.0, 1	.922		2.4, 0	.808
	7.5, 0	.906		1.8, 0	.764
	5.6, 0	.886		1.3, 0	.711
	4.2, 0	.862			
	3.2, 0	.836	.15	7.5, 0	.977
				5.6, 0	.950
.10	1.8, 1	.989		4.2, 0	.911
	1.3, 1	.972		3.2, 0	.867

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°; \frac{\theta}{\theta_0}=0.40$—Continued			
0.15	2.4, 0	0.818	0.45	1.3, 0	0.988
	1.8, 0	.769		1.0, 0	.963
	1.3, 0	.712		7.5, −1	.907
	1.0, 0	.661		5.6, −1	.812
	7.5, −1	.599		4.2, −1	.686
				3.2, −1	.550
.20	5.6, 0	.988		2.4, −1	.405
	4.2, 0	.967		1.8, −1	.275
	3.2, 0	.931		1.3, −1	.158
	2.4, 0	.877		1.0, −1	.092
	1.8, 0	.811		7.5, −2	.044
	1.3, 0	.733			
	1.0, 0	.670	.50	1.0, 0	.984
	7.5, −1	.602		7.5, −1	.950
	5.6, −1	.529		5.6, −1	.881
	4.2, −1	.452		4.2, −1	.774
				3.2, −1	.645
.25	3.2, 0	.976		2.4, −1	.494
	2.4, 0	.941		1.8, −1	.346
	1.8, 0	.883		1.3, −1	.204
	1.3, 0	.794		1.0, −1	.118
	1.0, 0	.713		7.5, −2	.056
	7.5, −1	.624		5.6, −2	.021
	5.6, −1	.537			
	4.2, −1	.454	.60	7.5, −1	.989
	3.2, −1	.376		5.6, −1	.962
	2.4, −1	.293		4.2, −1	.905
				3.2, −1	.817
.30	2.4, 0	.979		2.4, −1	.691
	1.8, 0	.943		1.8, −1	.546
	1.3, 0	.870		1.3, −1	.379
	1.0, 0	.787		1.0, −1	.259
	7.5, −1	.683		7.5, −2	.153
	5.6, −1	.573		5.6, −2	.078
	4.2, −1	.471		4.2, −2	.033
	3.2, −1	.382			
	2.4, −1	.294	.70	4.2, −1	.970
	1.8, −1	.213		3.2, −1	.927
	1.3, −1	.134		2.4, −1	.850
				1.8, −1	.744
.35	1.8, 0	.977		1.3, −1	.602
	1.3, 0	.931		1.0, −1	.485
	1.0, 0	.864		7.5, −2	.364
	7.5, −1	.764		5.6, −2	.258
	5.6, −1	.643		4.2, −2	.173
	4.2, −1	.519		3.2, −2	.110
	3.2, −1	.408		2.4, −2	.061
	2.4, −1	.305		1.8, −2	.029
	1.8, −1	.216			
	1.3, −1	.134	.80	3.2, −1	.978
	1.0, −1	.082		2.4, −1	.944
				1.8, −1	.887
.40	1.3, 0	.969		1.3, −1	.798
	1.0, 0	.925		1.0, −1	.715
	7.5, −1	.844		7.5, −2	.620
	5.6, −1	.729		5.6, −2	.528
	4.2, −1	.596		4.2, −2	.442
	3.2, −1	.466		3.2, −2	.364
	2.4, −1	.340		2.4, −2	.285
	1.8, −1	.233		1.8, −2	.210
	1.3, −1	.139		1.3, −2	.136
	1.0, −1	.083		1.0, −2	.086
	7.5, −2	.042		7.5, −3	.046

$\theta_0=135°; \frac{\theta}{\theta_0}=0.45$

[Pl. 79]

0.05	4.2, 1	0.982	0.15	1.8, 0	0.760
	3.2, 1	.971		1.3, 0	.701
	2.4, 1	.959		1.0, 0	.649
	1.8, 1	.947		7.5, −1	.585
	1.3, 1	.932			
	1.0, 1	.919	.20	5.6, 0	.988
	7.5, 0	.902		4.2, 0	.966
	5.6, 0	.882		3.2, 0	.928
	4.2, 0	.857		2.4, 0	.872
	3.2, 0	.830		1.8, 0	.804
				1.3, 0	.723
.10	1.8, 1	.988		1.0, 0	.658
	1.3, 1	.971		7.5, −1	.587
	1.0, 1	.950		5.6, −1	.512
	7.5, 0	.922		4.2, −1	.434
	5.6, 0	.891			
	4.2, 0	.860	.25	3.2, 0	.975
	3.2, 0	.831		2.4, 0	.938
	2.4, 0	.795		1.8, 0	.878
	1.8, 0	.755		1.3, 0	.786
	1.3, 0	.700		1.0, 0	.702
.15	7.5, 0	.976		7.5, −1	.610
	5.6, 0	.948		5.6, −1	.521
	4.2, 0	.907		4.2, −1	.436
	3.2, 0	.862		3.2, −1	.356
	2.4, 0	.811		2.4, −1	.272

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=135°; \frac{\theta}{\theta_0}=0.45$—Continued			
0.30	2.4, 0	0.978	0.50	1.0, 0	0.983
	1.8, 0	.940		7.5, −1	.948
	1.3, 0	.865		5.6, −1	.876
	1.0, 0	.779		4.2, −1	.766
	7.5, −1	.671		3.2, −1	.632
	5.6, −1	.558		2.4, −1	.477
	4.2, −1	.453		1.8, −1	.328
	3.2, −1	.362		1.3, −1	.187
	2.4, −1	.274		1.0, −1	.104
	1.8, −1	.193		7.5, −2	.046
	1.3, −1	.116			
			.60	7.5, −1	.989
.35	1.8, 0	.976		5.6, −1	.961
	1.3, 0	.928		4.2, −1	.901
	1.0, 0	.859		3.2, −1	.810
	7.5, −1	.755		2.4, −1	.681
	5.6, −1	.630		1.8, −1	.531
	4.2, −1	.502		1.3, −1	.364
	3.2, −1	.389		1.0, −1	.245
	2.4, −1	.285		7.5, −2	.143
	1.8, −1	.196		5.6, −2	.072
	1.3, −1	.116		4.2, −2	.031
	1.0, −1	.068			
			.70	4.2, −1	.969
.40	1.3, 0	.967		3.2, −1	.924
	1.0, 0	.922		2.4, −1	.844
	7.5, −1	.838		1.8, −1	.735
	5.6, −1	.719		1.3, −1	.591
	4.2, −1	.581		1.0, −1	.473
	3.2, −1	.448		7.5, −2	.355
	2.4, −1	.320		5.6, −2	.253
	1.8, −1	.213		4.2, −2	.171
	1.3, −1	.121		3.2, −2	.109
	1.0, −1	.069		2.4, −2	.061
	7.5, −2	.032		1.8, −2	.029
			.80	3.2, −1	.977
.45	1.3, 0	.987		2.4, −1	.942
	1.0, 0	.962		1.8, −1	.883
	7.5, −1	.903		1.3, −1	.792
	5.6, −1	.805		1.0, −1	.707
	4.2, −1	.675		7.5, −2	.613
	3.2, −1	.534		5.6, −2	.523
	2.4, −1	.386		4.2, −2	.439
	1.8, −1	.255		3.2, −2	.363
	1.3, −1	.141		2.4, −2	.285
	1.0, −1	.077		1.8, −2	.210
	7.5, −2	.034		1.3, −2	.136
				1.0, −2	.086
				7.5, −3	.046

$\theta_0=135°; \frac{\theta}{\theta_0}=0.50$

[Pl. 80]

0.05	4.2, 1	0.981	0.25	3.2, 0	0.975
	3.2, 1	.971		2.4, 0	.938
	2.4, 1	.959		1.8, 0	.877
	1.8, 1	.946		1.3, 0	.783
	1.3, 1	.931		1.0, 0	.699
	1.0, 1	.918		7.5, −1	.606
	7.5, 0	.901		5.6, −1	.515
	5.6, 0	.880		4.2, −1	.430
	4.2, 0	.855		3.2, −1	.349
	3.2, 0	.828		2.4, −1	.265
.10	1.8, 1	.988	.30	2.4, 0	.977
	1.3, 1	.971		1.8, 0	.940
	1.0, 1	.949		1.3 0	.863
	7.5, 0	.921		1.0, 0	.777
	5.6, 0	.890		7.5, −1	.667
	4.2, 0	.859		5.6, −1	.553
	3.2, 0	.828		4.2, −1	.447
	2.4, 0	.793		3.2, −1	.355
	1.8, 0	.752		2.4, −1	.267
	1.3, 0	.696		1.8, −1	.187
				1.3, −1	.110
.15	7.5, 0	.976			
	5.6, 0	.947	.35	1.8, 0	.976
	4.2, 0	.906		1.3, 0	.927
	3.2, 0	.860		1.0, 0	.858
	2.4, 0	.809		7.5, −1	.752
	1.8, 0	.757		5.6, −1	.625
	1.3, 0	.697		4.2, −1	.496
	1.0, 0	.645		3.2, −1	.383
	7.5, −1	.580		2.4, −1	.278
				1.8, −1	.190
.20	5.6, 0	.987		1.3, −1	.111
	4.2, 0	.965		1.0, −1	.063
	3.2, 0	.928			
	2.4, 0	.871	.40	1.3, 0	.967
	1.8, 0	.802		1.0, 0	.921
	1.3, 0	.719		7.5, −1	.836
	1.0, 0	.654		5.6, −1	.715
	7.5, −1	.582		4.2, −1	.576
	5.6, −1	.507		3.2, −1	.443
	4.2, −1	.428		2.4, −1	.313

$\theta_0=135°$; $\frac{\theta}{\theta_0}=0.50$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	1.8, −1	0.206	0.60	1.8, 0	0.527
	1.3, −1	.116		1.3, 0	.359
	1.0, −1	.065		1.0, 0	.241
	7.5, −2	.029		7.5, −2	.140
				5.6, −2	.070
.45	1.3, 0	.987		4.2, −2	.030
	1.0, 0	.961	.70	4.2, −1	.969
	7.5, −1	.902		3.2, −1	.923
	5.6, −1	.803		2.4, −1	.843
	4.2, −1	.671		1.8, −1	.732
	3.2, −1	.529		1.3, −1	.587
	2.4, −1	.380		1.0, −1	.470
	1.8, −1	.249		7.5, −2	.352
	1.3, −1	.135		5.6, −2	.251
	1.0, −1	.073		4.2, −2	.170
	7.5, −2	.031		3.2, −2	.109
				2.4, −2	.061
.50	1.0, 0	.983		1.8, −2	.029
	7.5, −1	.947			
	5.6, −1	.874	.80	3.2, −1	.977
	4.2, −1	.763		2.4, −1	.941
	3.2, −1	.628		1.8, −1	.882
	2.4, −1	.472		1.3, −1	.789
	1.8, −1	.322		1.0, −1	.705
	1.3, −1	.182		7.5, −2	.611
	1.0, −1	.100		5.6, −2	.522
	7.5, −2	.043		4.2, −2	.439
				3.2, −2	.363
.60	7.5, 0	.989		2.4, −2	.285
	5.6, 0	.960		1.8, −2	.210
	4.2, 0	.900		1.3, −2	.136
	3.2, 0	.808		1.0, −2	.086
	2.4, 0	.677		7.5, −3	.046

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 81]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.8, 1	0.988	0.40	1.0, 0	0.984
	1.3, 1	.985		7.5, −1	.968
	1.0, 1	.982		5.6, −1	.946
	7.5, 0	.979		4.2, −1	.921
	5.6, 0	.975		3.2, −1	.894
				2.4, −1	.864
.10	1.0, 1	.989		1.8, −1	.835
	7.5, 0	.983		1.3, −1	.800
	5.6, 0	.977		1.0, −1	.771
	4.2, 0	.971			
	3.2, 0	.966	.45	7.5, −1	.980
	2.4, 0	.959		5.6, −1	.962
				4.2, −1	.938
.15	5.6, 0	.988		3.2, −1	.911
	4.2, 0	.980		2.4, −1	.879
	3.2, 0	.972		1.8, −1	.845
	2.4, 0	.962		1.3, −1	.806
	1.8, 0	.953		1.0, −1	.774
	1.3, 0	.942		7.5, −2	.737
	1.0, 0	.932		5.6, −2	.697
.20	3.2, 0	.985	.50	7.5, −1	.989
	2.4, 0	.974		5.6, −1	.976
	1.8, 0	.961		4.2, −1	.955
	1.3, 0	.946		3.2, −1	.931
	1.0, 0	934		2.4, −1	.899
	7.5, −1	.921		1.8, −1	.863
	5.6, −1	.907		1.3, −1	.819
				1.0, −1	.783
.25	2.4, 0	.987		7.5, −2	.741
	1.8, 0	.975		5.6, −2	.698
	1.3, 0	.958		4.2, −2	.653
	1.0, 0	.943		3.2, −2	.606
	7.5, −1	.925		2.4, −2	.551
	5.6, −1	.908			
	4.2, −1	.891	.60	4.2, −1	.981
	3.2, −1	.873		3.2, −1	.964
				2.4, −1	.940
.30	1.8, 0	.987		1.8, −1	.909
	1.3, 0	.973		1.3, −1	.865
	1.0, 0	.957		1.0, −1	.824
	7.5, −1	.937		7.5, −2	.774
	5.6, −1	.916		5.6, −2	.720
	4.2, −1	.895		4.2, −2	.665
	3.2, −1	.875		3.2, −2	.611
	2.4, −1	.853		2.4, −2	.553
				1.8, −2	.492
.35	1.3, 0	.985		1.3, −2	.418
	1.0, 0	.972		1.0, −2	.356
	7.5, −1	.953			
	5.6, −1	.930	.70	3.2, −1	.985
	4.2, −1	.905		2.4, −1	.971
	3.2, −1	.881		1.8, −1	.950
	2.4, −1	.856		1.3, −1	.918
	1.8, −1	.830		1.0, −1	.885
	1.3, −1	.799		7.5, −2	.840

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.05$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.70	5.6, −2	0.785	0.80	1.0, −1	0.940
	4.2, −2	.722		7.5, −2	.911
	3.2, −2	.657		5.6, −2	.873
	2.4, −2	.584		4.2, −2	.824
	1.8, −2	.509		3.2, −2	.767
	1.3, −2	.425		2.4, −2	.695
	1.0, −2	.358		1.8, −2	.611
	7.5, −3	.287		1.3, −2	.505
	5.6, −3	.217		1.0, −2	.417
	4.2, −3	.154		7.5, −3	.322
	3.2, −3	.103		5.6, −3	.234
				4.2, −3	.161
.80	2.4, −1	.989		3.2, −3	.105
	1.8, −1	.978		2.4, −3	.060
	1.3, −1	.960		1.8, −3	.030

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 82]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2, 1	0.986	0.40	1.8, −1	0.679
	2.4, 1	.981		1.3, −1	.616
	1.8, 1	.976		1.0, −1	.564
	1.3, 1	.970		7.5, −2	.504
	1.0, 1	965			
	7.5, 0	959	.45	1.0, 0	.984
	5.6, 0	.951		7.5, −1	.961
	4.2, 0	.942		5.6, −1	.926
				4.2, −1	.879
.10	1.3, 1	.986		3.2, −1	.826
	1.0, 1	.978		2.4, −1	.764
	7.5, 0	.966		1.8, −1	.700
	5.6, 0	.955		1.3, −1	.627
	4.2, 0	.943		1.0, −1	.569
	3.2, 0	.932		7.5, −2	.506
	2.4, 0	.919		5.6, −2	.440
	1.8, 0	.905			
			.50	7.5, −1	.978
.15	7.5, 0	.989		5.6, −1	.952
	5.6, 0	.977		4.2, −1	.912
	4.2, 0	.961		3.2, −1	.863
	3.2, 0	.944		2.4, −1	.802
	2.4, 0	.925		1.8, −1	.734
	1.8, 0	.907		1.3, −1	.652
	1.3, 0	.886		1.0, −1	.585
	1.0, 0	.867		7.5, −2	.514
	7.5, −1	.843		5.6, −2	.442
				4.2, −2	.373
.20	4.2, 0	.984		3.2, −2	.306
	3.2, 0	.970		2.4, −2	.237
	2.4, 0	.948			
	1.8, 0	.923	.60	5.6, −1	.984
	1.3, 0	.894		4.2, −1	.962
	1.0, 0	.870		3.2, −1	.929
	7.5, −1	.844		2.4, −1	.882
	5.6, −1	.816		1.8, −1	.821
	4.2, −1	.785		1.3, −1	.739
				1.0, −1	.663
.25	3.2, 0	.989		7.5, −2	.574
	2.4, 0	.974		5.6, −2	.481
	1.8, 0	.951		4.2, −2	.393
	1.3, 0	.917		3.2, −2	.315
	1.0, 0	.887		2.4, −2	.240
	7.5, −1	.853		1.8, −2	.173
	5.6, −1	.820		1.3, −2	.109
	4.2, −1	.786		1.0, −2	.067
	3.2, −1	.753			
			.70	4.2, −1	.987
.30	2.4, 0	.990		3.2, −1	.971
	1.8, 0	.975		2.4, −1	.942
	1.3, 0	.946		1.8, −1	.902
	1.0, 0	.915		1.3, −1	.840
	7.5, −1	.876		1.0, −1	.778
	5.6, −1	.834		7.5, −2	.695
	4.2, −1	.794		5.6, −2	.598
	3.2, −1	.755		4.2, −2	.494
	2.4, −1	.714		3.2, −2	.392
	1.8, −1	.669		2.4, −2	.289
				1.8, −2	.198
.35	1.8, 0	.989		1.3, −2	.117
	1.3, 0	.970		1.0, −2	.070
	1.0, 0	.944		7.5, −3	.035
	7.5, −1	.907			
	5.6, −1	.861	.80	2.4, −1	.978
	4.2, −1	.813		1.8, −1	.957
	3.2, −1	.767		1.3, −1	.922
	2.4, −1	.719		1.0, −1	.884
	1.8, −1	.671		7.5, −2	.829
	1.3, −1	.613		5.6, −2	.760
				4.2, −2	.675
.40	1.3, 0	.986		3.2, −2	.582
	1.0, 0	.968		2.4, −2	.472
	7.5, −1	.937		1.8, −2	.358
	5.6, −1	.894		1.3, −2	.235
	4.2, −1	.844		1.0, −2	.150
	3.2, −1	.792		7.5, −3	.080
	2.4, −1	.735		5.6 −3	.035

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 83]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2,1	0.987	0.40	4.2,−1	0.772
	3.2,1	.980		3.2,−1	.698
	2.4,1	.972		2.4,−1	.619
	1.8,1	.965		1.8,−1	.542
	1.3,1	.957		1.3,−1	.459
	1.0,1	.949		1.0,−1	.394
	7.5,0	.940		7.5,−2	.324
	5.6,0	.928	.45	1.0,0	.976
	4.2,0	.915		7.5,−1	.943
	1.3,1	.980		5.6,−1	.891
.10	1.0,1	.967		4.2,−1	.823
	7.5,0	.951		3.2,−1	.747
	5.6,0	.933		2.4,−1	.659
	4.2,0	.917		1.8,−1	.571
	3.2,0	.900		1.3,−1	.474
	2.4,0	.882		1.0,−1	.401
	1.8,0	.860		7.5,−2	.326
				5.6,−2	.253
.15	7.5,0	.983		4.2,−2	.187
	5.6,0	.966	.50	1.0,0	.989
	4.2,0	.943		7.5,−1	.968
	3.2,0	.918		5.6,−1	.929
	2.4,0	.890		4.2,−1	.871
	1.8,0	.863		3.2,−1	.801
	1.3,0	.832		2.4,−1	.713
	1.0,0	.805		1.8,−1	.618
	7.5,−1	.771		1.3,−1	.507
				1.0,−1	.422
.20	4.2,0	.977		7.5,−2	.335
	3.2,0	.955		5.6,−2	.257
	2.4,0	.924		4.2,−2	.187
	1.8,0	.887		3.2,−2	.130
	1.3,0	.844		2.4,−2	.081
	1.0,0	.810			
	7.5,−1	.773	.60	5.6,−1	.976
	5.6,−1	.732		4.2,−1	.944
	4.2,−1	.688		3.2,−1	.896
				2.4,−1	.827
.25	3.2,0	.983		1.8,−1	.741
	2.4,0	.961		1.3,−1	.627
	1.8,0	.928		1.0,−1	.527
	1.3,0	.878		7.5,−2	.414
	1.0,0	.834		5.6,−2	.306
	7.5,−1	.785		4.2,−2	.212
	5.6,−1	.737		3.2,−2	.141
	4.2,−1	.690		2.4,−2	.084
	3.2,−1	.642		1.8,−2	.044
	2.4,−1	.587			
			.70	4.2,−1	.981
.30	2.4,0	.985		3.2,−1	.957
	1.8,0	.963		2.4,−1	.915
	1.3,0	.921		1.8,−1	.857
	1.0,0	.875		1.3,−1	.770
	7.5,−1	.818		1.0,−1	.685
	5.6,−1	.758		7.5,−2	.577
	4.2,−1	.700		5.6,−2	.457
	3.2,−1	.646		4.2,−2	.337
	2.4,−1	.588		3.2,−2	.232
	1.8,−1	.528		2.4,−2	.139
				1.8,−2	.072
.35	1.8,0	.984		1.3,−2	.027
	1.3,0	.956			
	1.0,0	.919	.80	3.2,−1	.986
	7.5,−1	.863		2.4,−1	.967
	5.6,−1	.797		1.8,−1	.937
	4.2,−1	.728		1.3,−1	.887
	3.2,−1	.663		1.0,−1	.833
	2.4,−1	.596		7.5,−2	.760
	1.8,−1	.530		5.6,−2	.670
	1.3,−1	.456		4.2,−2	.568
	1.0,−1	.393		3.2,−2	.464
				2.4,−2	.353
.40	1.3,0	.979		1.8,−2	.250
	1.0,0	.953		1.3,−2	.152
	7.5,−1	.908		1.0,−2	.093
	5.6,−1	.845		7.5,−3	.048

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 84]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2,1	0.983	0.10	4.2,0	0.892
	3.2,1	.974		3.2,0	.871
	2.4,1	.964		2.4,0	.847
	1.8,1	.955		1.8,0	.820
	1.3,1	.944		1.3,0	.783
	1.0,1	.934	.15	7.5,0	.979
	7.5,0	.922		5.6,0	.956
	5.6,0	.907		4.2,0	.926
	4.2,0	.890		3.2,0	.894
.10	1.8,1	.989		2.4,0	.858
	1.3,1	.974		1.8,0	.824
	1.0,1	.958		1.3,0	.784
	7.5,0	.936		1.0,0	.749
	5.6,0	.914		7.5,−1	.706

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.20$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.20	5.6,0	0.988	0.45	3.2,−1	0.676
	4.2,0	.970		2.4,−1	.568
	3.2,0	.942		1.8,−1	.462
	2.4,0	.902		1.3,−1	.352
	1.8,0	.854		1.0,−1	.274
	1.3,0	.799		7.5,−2	.200
	1.0,0	.755		5.6,−2	.136
	7.5,−1	.708		4.2,−2	.085
	5.6,−1	.657	.50	1.0,0	.986
	4.2,−1	.602		7.5,−1	.959
				5.6,−1	.908
.25	3.2,0	.978		4.2,−1	.834
	2.4,0	.950		3.2,−1	.744
	1.8,0	.906		2.4,−1	.635
	1.3,0	.843		1.8,−1	.519
	1.0,0	.786		1.3,−1	.391
	7.5,−1	.724		1.0,−1	.298
	5.6,−1	.663		7.5,−2	.211
	4.2,−1	.604		5.6,−2	.139
	3.2,−1	.546		4.2,−2	.085
	2.4,−1	.480		3.2,−2	.048
.30	2.4,0	.981	.60	5.6,−1	.969
	1.8,0	.952		4.2,−1	.927
	1.3,0	.897		3.2,−1	.866
	1.0,0	.839		2.4,−1	.779
	7.5,−1	.766		1.8,−1	.672
	5.6,−1	.689		1.3,−1	.535
	4.2,−1	.617		1.0,−1	.420
	3.2,−1	.550		7.5,−2	.300
	2.4,−1	.481		5.6,−2	.193
	1.8,−1	.411		4.2,−2	.112
				3.2,−2	.059
.35	1.8,0	.980		2.4,−2	.026
	1.3,0	.943			
	1.0,0	.895	.70	4.2,−1	.976
	7.5,−1	.824		3.2,−1	.944
	5.6,−1	.739		2.4,−1	.891
	4.2,−1	.652		1.8,−1	.817
	3.2,−1	.571		1.3,−1	.710
	2.4,−1	.490		1.0,−1	.609
	1.8,−1	.414		7.5,−2	.488
	1.3,−1	.330		5.6,−2	.362
	1.0,−1	.265		4.2,−2	.247
				3.2,−2	.155
.40	1.3,0	.973		2.4,−2	.083
	1.0,0	.939		1.8,−2	.037
	7.5,−1	.881			
	5.6,−1	.800	.80	3.2,−1	.982
	4.2,−1	.707		2.4,−1	.958
	3.2,−1	.614		1.8,−1	.919
	2.4,−1	.518		1.3,−1	.856
	1.8,−1	.428		1.0,−1	.790
	1.3,−1	.335		7.5,−2	.705
	1.0,−1	.266		5.6,−2	.606
	7.5,−2	.197		4.2,−2	.502
				3.2,−2	.403
.45	1.3,0	.989		2.4,−2	.305
	1.0,0	.969		1.8,−2	.218
	7.5,−1	.927		1.3,−2	.137
	5.6,−1	.859		1.0,−2	.087
	4.2,−1	.772		7.5,−3	.046

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 85]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6,1	0.988	0.15	2.4,0	0.830
	4.2,1	.979		1.8,0	.788
	3.2,1	.969		1.3,0	.741
	2.4,1	.957		1.0,0	.700
	1.8,1	.946		7.5,−1	.649
	1.3,1	.932			
	1.0,1	.921	.20	5.6,0	.986
	7.5,0	.906		4.2,0	.964
	5.6,0	.888		3.2,0	.931
	4.2,0	.868		2.4,0	.882
				1.8,0	.825
.10	1.8,1	.987		1.3,0	.759
	1.3,1	.969		1.0,0	.707
	1.0,1	.949		7.5,−1	.651
	7.5,0	.923		5.6,−1	.592
	5.6,0	.896		4.2,−1	.529
	4.2,0	.870			
	3.2,0	.845	.25	3.2,0	.974
	2.4,0	.817		2.4,0	.940
	1.8,0	.784		1.8,0	.887
	1.3,0	.740		1.3,0	.811
				1.0,0	.744
.15	1.0,1	.990		7.5,−1	.670
	7.5,0	.974		5.6,−1	.599
	5.6,0	.947		4.2,−1	.531
	4.2,0	.911		3.2,−1	.465
	3.2,0	.872		2.4,−1	.393

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.25$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.30	2.4, 0	0.977	0.50	1.0, 0	0.983
	1.8, 0	.942		7.5, −1	.951
	1.3, 0	.877		5.6, −1	.890
	1.0, 0	.807		4.2, −1	.801
	7.5, −1	.720		3.2, −1	.695
	5.6, −1	.630		2.4, −1	.569
	4.2, −1	.545		1.8, −1	.440
	3.2, −1	.470		1.3, −1	.304
	2.4, −1	.394		1.0, −1	.211
	1.8, −1	.319		7.5, −2	.131
				5.6, −2	.073
.35	1.8, 0	.976		4.2, −2	.037
	1.3, 0	.932	.60	7.5, −1	.988
	1.0, 0	.873		5.6, −1	.963
	7.5, −1	.788		4.2, −1	.913
	5.6, −1	.688		3.2, −1	.839
	4.2, −1	.586		2.4, −1	.737
	3.2, −1	.494		1.8, −1	.614
	2.4, −1	.404		1.3, −1	.463
	1.8, −1	.322		1.0, −1	.343
	1.3, −1	.238		7.5, −2	.225
	1.0, −1	.176		5.6, −2	.129
	7.5, −2	.117		4.2, −2	.063
	5.6, −2	.069		3.2, −2	.027
	4.2, −2	.036			
			.70	4.2, −1	.971
.40	1.3, 0	.967		3.2, −1	.933
	1.0, 0	.927		2.4, −1	.869
	7.5, −1	.857		1.8, −1	.783
	5.6, −1	.761		1.3, −1	.661
	4.2, −1	.651		1.0, −1	.551
	3.2, −1	.544		7.5, −2	.427
	2.4, −1	.435		5.6, −2	.306
	1.8, −1	.337		4.2, −2	.202
	1.3, −1	.242		3.2, −2	.124
	1.0, −1	.177		2.4, −2	.066
	7.5, −2	.117		1.8, −2	.030
			.80	3.2, −1	.979
.45	1.3, 0	.986		2.4, −1	.949
	1.0, 0	.962		1.8, −1	.903
	7.5, −1	.912		1.3, −1	.829
	5.6, −1	.831		1.0, −1	.756
	4.2, −1	.727		7.5, −2	.665
	3.2, −1	.615		5.6, −2	.566
	2.4, −1	.492		4.2, −2	.467
	1.8, −1	.375		3.2, −2	.377
	1.3, −1	.261		2.4, −2	.290
	1.0, −1	.185		1.8, −2	.212
	7.5, −2	.119		1.3, −2	.136
	5.6, −2	.070		1.0, −2	.086
	4.2, −2	.036		7.5, −3	.046

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.30$

[Pl. 86]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 1	0.987	0.20	1.0, 0	0.667
	4.2, 1	.976		7.5, −1	.604
	3.2, 1	.964		5.6, −1	.539
	2.4, 1	.951		4.2, −1	.470
	1.8, 1	.938			
	1.3, 1	.923	.25	4.2, 0	.990
	1.0, 1	.909		3.2, 0	.970
	7.5, 0	.892		2.4, 0	.931
	5.6, 0	.872		1.8, 0	.871
	4.2, 0	.849		1.3, 0	.784
	3.2, 0	.823		1.0, 0	.708
				7.5, −1	.625
.10	1.8, 1	.985		5.6, −1	.546
	1.3, 1	.965		4.2, −1	.471
	1.0, 1	.942		3.2, −1	.401
	7.5, 0	.912		2.4, −1	.325
	5.6, 0	.881			
	4.2, 0	.852	.30	2.4, 0	.973
	3.2, 0	.823		1.8, 0	.934
	2.4, 0	.791		1.3, 0	.859
	1.8, 0	.753		1.0, 0	.779
	1.3, 0	.704		7.5, −1	.681
				5.6, −1	.580
.15	1.0, 1	.989		4.2, −1	.487
	7.5, 0	.971		3.2, −1	.406
	5.6, 0	.940		2.4, −1	.326
	4.2, 0	.899		1.8, −1	.250
	3.2, 0	.854		1.3, −1	.172
	2.4, 0	.805			
	1.8, 0	.758	.35	1.8, 0	.972
	1.3, 0	.705		1.3, 0	.922
	1.0, 0	.659		1.0, 0	.855
	7.5, −1	.602		7.5, −1	.759
				5.6, −1	.646
.20	5.6, 0	.984		4.2, −1	.532
	4.2, 0	.959		3.2, −1	.432
	3.2, 0	.921		2.4, −1	.337
	2.4, 0	.865		1.8, −1	.253
	1.8, 0	.800		1.3, −1	.172
	1.3, 0	.725		1.0, −1	.117

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.30$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	1.3, 0	0.963	0.60	4.2, −1	0.900
	1.0, 0	.916		3.2, −1	.817
	7.5, −1	.836		2.4, −1	.702
	5.6, −1	.727		1.8, −1	.568
	4.2, −1	.605		1.3, −1	.410
	3.2, −1	.487		1.0, −1	.290
	2.4, −1	.370		7.5, −2	.179
	1.8, −1	.269		5.6, −2	.095
	1.3, −1	.177		4.2, −2	.043
	1.0, −1	.118			
	7.5, −2	.069	.70	5.6, −1	.989
				4.2, −1	.966
.45	1.3, 0	.984		3.2, −1	.923
	1.0, 0	.957		2.4, −1	.851
	7.5, −1	.899		1.8, −1	.754
	5.6, −1	.807		1.3, −1	.623
	4.2, −1	.690		1.0, −1	.510
	3.2, −1	.565		7.5, −2	.388
	2.4, −1	.432		5.6, −2	.275
	1.8, −1	.310		4.2, −2	.182
	1.3, −1	.196		3.2, −2	.114
	1.0, −1	.126		2.4, −2	.062
	7.5, −2	.072		1.8, −2	.029
	5.6, −2	.035			
			.80	3.2, −1	.976
.50	1.0, 0	.980		2.4, −1	.942
	7.5, −1	.943		1.8, −1	.889
	5.6, −1	.874		1.3, −1	.808
	4.2, −1	.773		1.0, −1	.730
	3.2, −1	.655		7.5, −2	.638
	2.4, −1	.516		5.6, −2	.542
	1.8, −1	.379		4.2, −2	.450
	1.3, −1	.241		3.2, −2	.368
	1.0, −1	.153		2.4, −2	.286
	7.5, −2	.083		1.8, −2	.210
	5.6, −2	.039		1.3, −2	.136
				1.0, −2	.086
.60	7.5, −1	.986		7.5, −3	.046
	5.6, −1	.957			

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.35$

[Pl. 87]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 1	0.985	0.25	5.6, −1	0.505
	4.2, 1	.974		4.2, −1	.426
	3.2, 1	.961		3.2, −1	.352
	2.4, 1	.946		2.4, −1	.275
	1.8, 1	.931	.30	2.4, 0	.971
	1.3, 1	.915		1.8, 0	.927
	1.0, 1	.900		1.3, 0	.845
	7.5, 0	.882		1.0, 0	.758
	5.6, 0	.859		7.5, −1	.650
	4.2, 0	.833		5.6, −1	.542
	3.2, 0	.805		4.2, −1	.443
				3.2, −1	.358
.10	1.8, 1	.983		2.4, −1	.276
	1.3, 1	.961		1.8, −1	.202
	1.0, 1	.936		1.3, −1	.128
	7.5, 0	.903			
	5.6, 0	.870	.35	1.8, 0	.969
	4.2, 0	.837		1.3, 0	.914
	3.2, 0	.806		1.0, 0	.841
	2.4, 0	.770		7.5, −1	.735
	1.8, 0	.729		5.6, −1	.612
	1.3, 0	.675		4.2, −1	.491
				3.2, −1	.385
.15	1.0, 1	.987		2.4, −1	.287
	7.5, 0	.968		1.8, −1	.205
	5.6, 0	.934		1.3, −1	.129
	4.2, 0	.888		1.0, −1	.081
	3.2, 0	.839			
	2.4, 0	.786	.40	1.8, 0	.989
	1.8, 0	.735		1.3, 0	.959
	1.3, 0	.676		1.0, 0	.908
	1.0, 0	.626		7.5, −1	.820
	7.5, −1	.565		5.6 −1	.701
				4.2, −1	.568
.20	5.6, 0	.983		3.2, −1	.443
	4.2, 0	.955		2.4, −1	.322
	3.2, 0	.912		1.8, −1	.221
	2.4, 0	.851		1.3, −1	.134
	1.8, 0	.780		1.0, −1	.082
	1.3, 0	.698		7.5, −2	.043
	1.0, 0	.635			
	7.5, −1	.567	.45	1.3, 0	.983
	5.6, −1	.497		1.0, 0	.953
	4.2, −1	.424		7.5, −1	.889
				5.6, −1	.788
.25	4.2, 0	.989		4.2, −1	.661
	3.2, 0	.967		3.2, −1	.527
	2.4, 0	.924		2.4, −1	.387
	1.8, 0	.858		1.8, −1	.263
	1.3, 0	.763		1.3, −1	.153
	1.0, 0	.679		1.0, −1	.090
	7.5, −1	.590		7.5, −2	.045

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=150°;\ \frac{\theta}{\theta_0}=0.35$—Continued			
0.50	1.0, 0	0.978	0.70	3.2, −1	0.916
	7.5, −1	.938		2.4, −1	.837
	5.6, −1	.862		1.8, −1	.733
	4.2, −1	.751		1.3, −1	.596
	3.2, −1	.623		1.0, −1	.482
	2.4, −1	.476		7.5, −2	.364
	1.8, −1	.335		5.6, −2	.259
	1.3, −1	.199		4.2, −2	.174
	1.0, −1	.117		3.2, −2	.110
	7.5, −2	.056		2.4, −2	.061
	5.6, −2	.022		1.8, −2	.029
.60	7.5, −1	.985	.80	3.2, −1	.973
	5.6, −1	.953		2.4, −1	.937
	4.2, −1	.890		1.8, −1	.879
	3.2, −1	.799		1.3, −1	.792
	2.4, −1	.675		1.0, −1	.712
	1.8, −1	.534		7.5, −2	.620
	1.3, −1	.373		5.6, −2	.528
	1.0, −1	.257		4.2, −2	.442
	7.5, −2	.153		3.2, −2	.364
	5.6, −2	.079		2.4, −2	.285
	4.2, −2	.034		1.8, −2	.210
				1.3, −2	.136
.70	5.6, −1	.988		1.0, −2	.086
	4.2, −1	.963		7.5, −3	.046

$\theta_0=150°;\ \frac{\theta}{\theta_0}=0.40$

[Pl. 88]

0.05	5.6, 1	0.984	0.30	3.2, −1	0.325
	4.2, 1	.972		2.4, −1	.243
	3.2, 1	.958		1.8, −1	.170
	2.4, 1	.942		1.3, −1	.101
	1.8, 1	.927			
	1.3, 1	.909	.35	1.8, 0	.967
	1.0, 1	.893		1.3, 0	.908
	7.5, 0	.874		1.0, 0	.830
	5.6, 0	.850		7.5, −1	.718
	4.2, 0	.822		5.6, −1	.588
	3.2, 0	.792		4.2, −1	.461
				3.2, −1	.352
.10	1.8, 1	.982		2.4, −1	.254
	1.3, 1	.958		1.8, −1	.173
	1.0, 1	.931		1.3, −1	.102
	7.5, 0	.897		1.0, −1	.059
	5.6, 0	.861			
	4.2, 0	.826	.40	1.8, 0	.989
	3.2, 0	.793		1.3, 0	.956
	2.4, 0	.755		1.0, 0	.902
	1.8, 0	.711		7.5, −1	.808
	1.3, 0	.655		5.6, −1	.682
				4.2, −1	.542
.15	1.0, 1	.987		3.2, −1	.412
	7.5, 0	.965		2.4, −1	.289
	5.6, 0	.929		1.8, −1	.190
	4.2, 0	.881		1.3, −1	.107
	3.2, 0	.828		1.0, −1	.061
	2.4, 0	.772		7.5, −2	.028
	1.8, 0	.717			
	1.3, 0	.656	.45	1.3, 0	.982
	1.0, 0	.602		1.0, 0	.949
	7.5, −1	.538		7.5, −1	.881
				5.6, −1	.775
.20	5.6, 0	.981		4.2, −1	.640
	4.2, 0	.952		3.2, −1	.500
	3.2, 0	.907		2.4, −1	.356
	2.4, 0	.841		1.8, −1	.232
	1.8, 0	.765		1.3, −1	.126
	1.3, 0	.678		1.0, −1	.069
	1.0, 0	.612		7.5, −2	.030
	7.5, −1	.541			
	5.6, −1	.467	.50	1.0, 0	.977
	4.2, −1	.392		7.5, −1	.933
				5.6, −1	.852
.25	4.2, 0	.988		4.2, −1	.735
	3.2, 0	.965		3.2, −1	.600
	2.4, 0	.919		2.4, −1	.448
	1.8, 0	.849		1.8, −1	.305
	1.3, 0	.747		1.3, −1	.173
	1.0, 0	.659		1.0, −1	.096
	7.5, −1	.564		7.5, −2	.042
	5.6, −1	.476			
	4.2, −1	.394	.60	7.5, −1	.984
	3.2, −1	.319		5.6, −1	.950
	2.4, −1	.241		4.2, −1	.883
				3.2, −1	.786
.30	2.4, 0	.969		2.4, −1	.655
	1.8, 0	.922		1.8, −1	.510
	1.3, 0	.835		1.3, −1	.349
	1.0, 0	.742		1.0, −1	.236
	7.5, −1	.628		7.5, −2	.139
	5.6, −1	.514		5.6, −2	.071
	4.2, −1	.411		4.2, −2	.031

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=150°;\ \frac{\theta}{\theta_0}=0.40$—Continued			
0.70	5.6, −1	0.988	0.80	3.2, −1	0.971
	4.2, −1	.961		2.4, −1	.932
	3.2, −1	.910		1.8, −1	.871
	2.4, −1	.827		1.3, −1	.781
	1.8, −1	.717		1.0, −1	.700
	1.3, −1	.578		7.5, −2	.610
	1.0, −1	.465		5.6, −2	.522
	7.5, −2	.351		4.2, −2	.439
	5.6, −2	.252		3.2, −2	.363
	4.2, −2	.170		2.4, −2	.285
	3.2, −2	.109		1.8, −2	.210
	2.4, −2	.061		1.3, −2	.136
	1.8, −2	.029		1.0, −2	.086
				7.5, −3	.046

$\theta_0=150°;\ \frac{\theta}{\theta_0}=0.45$

[Pl. 89]

0.05	5.6, 1	0.984	0.35	1.3, −1	0.087
	4.2, 1	.971		1.0, −1	.048
	3.2, 1	.956	.40	1.8, 0	.988
	2.4, 1	.940		1.3, 0	.954
	1.8, 1	.924		1.0, 0	.898
	1.3, 1	.906		7.5, −1	.801
	1.0, 1	.889		5.6, −1	.670
	7.5, 0	.869		4.2, −1	.527
	5.6, 0	.844		3.2, −1	.394
	4.2, 0	.816		2.4, −1	.271
	3.2, 0	.784		1.8, −1	.172
.10	1.8, 1	.981		1.3, −1	.092
	1.3, 1	.957		1.0, −1	.050
	1.0, 1	.929	.45	1.3, 0	.981
	7.5, 0	.893		1.0, 0	.947
	5.6, 0	.855		7.5, −1	.877
	4.2, 0	.819		5.6, −1	.766
	3.2, 0	.785		4.2, −1	.627
	2.4, 0	.746		3.2, −1	.484
	1.8, 0	.701		2.4, −1	.338
	1.3, 0	.642		1.8, −1	.215
.15	1.0, 1	.986		1.3, −1	.112
	7.5, 0	.964		1.0, −1	.058
	5.6, 0	.927		7.5, −2	.024
	4.2, 0	.876	.50	1.0, 0	.976
	3.2, 0	.822		7.5, −1	.931
	2.4, 0	.763		5.6, −1	.847
	1.8, 0	.707		4.2, −1	.726
	1.3, 0	.643		3.2, −1	.587
	1.0, 0	.588		2.4, −1	.432
	7.5, −1	.522		1.8, −1	.289
.20	5.6, 0	.981		1.3, −1	.158
	4.2, 0	.950		1.0, −1	.085
	3.2, 0	.903		7.5, −2	.035
	2.4, 0	.835	.60	7.5, −1	.983
	1.8, 0	.757		5.6, −1	.948
	1.3, 0	.667		4.2, −1	.879
	1.0, 0	.598		3.2, −1	.779
	7.5, −1	.525		2.4, −1	.644
	5.6, −1	.450		1.8, −1	.496
	4.2, −1	.373		1.3, −1	.336
.25	4.2, 0	.987		1.0, −1	.226
	3.2, 0	.964		7.5, −2	.132
	2.4, 0	.916		5.6, −2	.067
	1.8, 0	.843		4.2, −2	.030
	1.3, 0	.738	.70	5.6, −1	.987
	1.0, 0	.646		4.2, −1	.959
	7.5, −1	.549		3.2, −1	.907
	5.6, −1	.458		2.4, −1	.820
	4.2, −1	.375		1.8, −1	.708
	3.2, −1	.299		1.3, −1	.567
	2.4, −1	.222		1.0, −1	.455
				7.5, −2	.345
.30	2.4, 0	.967		5.6, −2	.248
	1.8, 0	.919		4.2, −2	.169
	1.3, 0	.828		3.2, −2	.109
	1.0, 0	.732		2.4, −2	.061
	7.5, −1	.615		1.8, −2	.029
	5.6, −1	.497			
	4.2, −1	.393	.80	4.2, −1	.990
	3.2, −1	.305		3.2, −1	.970
	2.4, −1	.224		2.4, −1	.930
	1.8, −1	.152		1.8, −1	.867
	1.3, −1	.087		1.3, −1	.774
				1.0, −1	.693
.35	1.8, 0	.966		7.5, −2	.604
	1.3, 0	.905		5.6, −2	.519
	1.0, 0	.824		4.2, −2	.438
	7.5, −1	.707		3.2, −2	.363
	5.6, −1	.574		2.4, −2	.285
	4.2, −1	.443		1.8, −2	.210
	3.2, −1	.333		1.3, −2	.136
	2.4, −1	.235		1.0, −2	.086
	1.8, −1	.155		7.5, −3	.046

$\theta_0=150°$; $\frac{\theta}{\theta_0}=0.50$

[Pl. 90]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 1	0.984	0.35	1.8, −1	0.150
	4.2, 1	.971		1.3, −1	.083
	3.2, 1	.956		1.0, −1	.045
	2.4, 1	.939			
	1.8, 1	.923	.40	1.8, 0	.988
	1.3, 1	.904		1.3, 0	.954
	1.0, 1	.888		1.0, 0	.897
	7.5, 0	.867		7.5, −1	.798
	5.6, 0	.842		5.6, −1	.666
	4.2, 0	.813		4.2, −1	.522
	3.2, 0	.782		3.2, −1	.388
				2.4, −1	.264
.10	1.8, 1	.981		1.8, −1	.166
	1.3, 1	.956		1.3, −1	.088
	1.0, 1	.928		1.0, −1	.046
	7.5, 0	.892			
	5.6, 0	.854	.45	1.3, 0	.981
	4.2, 0	.817		1.0, 0	.947
	3.2, 0	.782		7.5, −1	.875
	2.4, 0	.743		5.6, −1	.763
	1.8, 0	.697		4.2, −1	.623
	1.3, 0	.638		3.2, −1	.478
				2.4, −1	.333
.15	1.0, 1	.986		1.8, −1	.209
	7.5, 0	.964		1.3, −1	.107
	5.6, 0	.926		1.0, −1	.054
	4.2, 0	.875		7.5, −2	.022
	3.2, 0	.820			
	2.4, 0	.760	.50	1.0, 0	.976
	1.8, 0	.703		7.5, −1	.930
	1.3, 0	.639		5.6, −1	.845
	1.0, 0	.583		4.2, −1	.722
	7.5, −1	.517		3.2, −1	.582
				2.4, −1	.427
.20	5.6, 0	.980		1.8, −1	.283
	4.2, 0	.950		1.3, −1	.154
	3.2, 0	.902		1.0, −1	.081
	2.4, 0	.833		7.5, −2	.033
	1.8, 0	.754			
	1.3, 0	.663	.60	7.5, −1	.983
	1.0, 0	.593		5.6, −1	.947
	7.5, −1	.519		4.2, −1	.877
	5.6, −1	.444		3.2, −1	.776
	4.2, −1	.367		2.4, −1	.640
				1.8, −1	.492
.25	4.2, 0	.987		1.3, −1	.332
	3.2, 0	.963		1.0, −1	.223
	2.4, 0	.915		7.5, −2	.130
	1.8, 0	.841		5.6, −2	.066
	1.3, 0	.734		4.2, −2	.029
	1.0, 0	.642			
	7.5, −1	.544	.70	5.6, −1	.987
	5.6, −1	.453		4.2, −1	.958
	4.2, −1	.369		3.2, −1	.906
	3.2, −1	.293		2.4, −1	.818
	2.4, −1	.216		1.8, −1	.705
	1.8, −1	.146		1.3, −1	.564
				1.0, −1	.452
.30	2.4, 0	.967		7.5, −2	.343
	1.8, 0	.918		5.6, −2	.247
	1.3, 0	.826		4.2, −2	.169
	1.0, 0	.729		3.2, −2	.109
	7.5, −1	.610		2.4, −2	.061
	5.6, −1	.492		1.8, −2	.029
	4.2, −1	.386			
	3.2, −1	.299	.80	4.2, −1	.990
	2.4, −1	.217		3.2, −1	.970
	1.8, −1	.147		2.4, −1	.929
	1.3, −1	.082		1.8, −1	.865
	1.0, −1	.045		1.3, −1	.772
				1.0, −1	.691
.35	2.4, 0	.990		7.5, −2	.602
	1.8, 0	.965		5.6, −2	.518
	1.3, 0	.903		4.2, −2	.438
	1.0, 0	.822		3.2, −2	.363
	7.5, −1	.704		2.4, −2	.285
	5.6, −1	.569		1.8, −2	.210
	4.2, −1	.438		1.3, −2	.136
	3.2, −1	.327		1.0, −2	.086
	2.4, −1	.228		7.5, −3	.046

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 91]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	2.4, 1	0.987	0.10	3.2, 0	0.958
	1.8, 1	.984		2.4, 0	.951
	1.3, 1	.980		1.8, 0	.943
	1.0, 1	.977			
	7.5, 0	.974	.15	5.6, 0	.985
	5.6, 0	.969		4.2, 0	.975
				3.2, 0	.965
.10	1.0, 1	.985		2.4, 0	.954
	7.5, 0	.978		1.8, 0	.944
	5.6, 0	.971		1.3, 0	.932
	4.2, 0	.964		1.0, 0	.922

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.05$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.20	4.2, 0	0.989	0.50	4.2, −1	0.949
	3.2, 0	.980		3.2, −1	.922
	2.4, 0	.968		2.4, −1	.888
	1.8, 0	.953		1.8, −1	.849
	1.3, 0	.937		1.3, −1	.801
	1.0, 0	.924		1.0, −1	.761
	7.5, −1	.910		7.5, −2	.717
	5.6, −1	.894		5.6, −2	.670
				4.2, −2	.621
.25	2.4, 0	.983		3.2, −2	.571
	1.8, 0	.969		2.4, −2	.513
	1.3, 0	.950			
	1.0, 0	.933	.60	5.6, −1	.990
	7.5, −1	.915		4.2, −1	.977
	5.6, −1	.896		3.2, −1	.959
	4.2, −1	.878		2.4, −1	.932
	3.2, −1	.859		1.8, −1	.899
				1.3, −1	.851
.30	1.8, 0	.984		1.0, −1	.807
	1.3, 0	.967		7.5, −2	.753
	1.0, 0	.949		5.6, −2	.694
	7.5, −1	.928		4.2, −2	.634
	5.6, −1	.904		3.2, −2	.577
	4.2, −1	.882		2.4, −2	.514
	3.2, −1	.861		1.8, −2	.450
	2.4, −1	.837		1.3, −2	.374
	1.8, −1	.812		1.0, −2	.310
.35	1.3, 0	.981	.70	3.2, −1	.982
	1.0, 0	.966		2.4, −1	.967
	7.5, −1	.945		1.8, −1	.944
	5.6, −1	.920		1.3, −1	.910
	4.2, −1	.893		1.0, −1	.873
	3.2, −1	.867		7.5, −2	.824
	2.4, −1	.840		5.6, −2	.765
	1.8, −1	.813		4.2, −2	.697
	1.3, −1	.779		3.2, −2	.626
				2.4, −2	.547
.40	1.0, 0	.980		1.8, −2	.468
	7.5, −1	.962		1.3, −2	.380
	5.6, −1	.938		1.0, −2	.313
	4.2, −1	.910		7.5, −3	.242
	3.2, −1	.881		5.6, −3	.175
	2.4, −1	.850		4.2, −3	.117
	1.8, −1	.818		3.2, −3	.073
	1.3, −1	.781			
	1.0, −1	.749	.80	2.4, −1	.987
	7.5, −2	.711		1.8, −1	.975
				1.3, −1	.956
.45	1.0, 0	.989		1.0, −1	.934
	7.5, −1	.976		7.5, −2	.903
	5.6, −1	.956		5.6, −2	.860
	4.2, −1	.930		4.2, −2	.807
	3.2, −1	.901		3.2, −2	.746
	2.4, −1	.866		2.4, −2	.668
	1.8, −1	.830		1.8, −2	.578
	1.3, −1	.787		1.3, −2	.467
	1.0, −1	.752		1.0, −2	.375
	7.5, −2	.712		7.5, −3	.279
	5.6, −2	.668		5.6, −3	.193
				4.2, −3	.124
.50	7.5, −1	.986		3.2, −3	.075
	5.6, −1	.971		2.4, −3	.039

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 92]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	4.2, 1	0.987	0.20	4.2, 0	0.979
	3.2, 1	.981		3.2, 0	.961
	2.4, 1	.974		2.4, 0	.936
	1.8, 1	.968		1.8, 0	.908
	1.3, 1	.961		1.3, 0	.876
	1.0, 1	.955		1.0, 0	.850
	7.5, 0	.948		7.5, −1	.823
	5.6, 0	.939		5.6, −1	.793
	4.2, 0	.929		4.2, −1	.760
.10	1.3, 1	.981	.25	3.2, 0	.985
	1.0, 1	.970		2.4, 0	.966
	7.5, 0	.957		1.8, 0	.940
	5.6, 0	.943		1.3, 0	.902
	4.2, 0	.930		1.0, 0	.869
	3.2, 0	.918		7.5, −1	.832
	2.4, 0	.904		5.6, −1	.797
	1.8, 0	.887		4.2, −1	.761
				3.2, −1	.725
.15	7.5, 0	.984		2.4, −1	.684
	5.6, 0	.970			
	4.2, 0	.951	.30	2.4, 0	.986
	3.2, 0	.931		1.8, 0	.968
	2.4, 0	.910		1.3, 0	.935
	1.8, 0	.890		1.0, 0	.900
	1.3, 0	.867		7.5, −1	.857
	1.0, 0	.847		5.6, −1	.813
	7.5, −1	.822		4.2, −1	.769

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.10$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.30	3.2, −1	0.729	0.50	4.2, −2	0.328
	2.4, −1	.685		3.2, −2	.262
	1.8, −1	.637		2.4, −2	.195
.35	1.8, 0	.986	.60	5.6, −1	.980
	1.3, 0	.963		4.2, −1	.955
	1.0, 0	.933		3.2, −1	.919
	7.5, −1	.892		2.4, −1	.868
	5.6, −1	.842		1.8, −1	.803
	4.2, −1	.791		1.3, −1	.714
	3.2, −1	.741		1.0, −1	.633
	2.4, −1	.690		7.5, −2	.538
	1.8, −1	.639		5.6, −2	.441
	1.3, −1	.578		4.2, −2	.350
				3.2, −2	.271
.40	1.3, 0	.981		2.4, −2	.198
	1.0, 0	.960		1.8, −2	.135
	7.5, −1	.925		1.3, −2	.078
	5.6, −1	.879		1.0, −2	.045
	4.2, −1	.824			
	3.2, −1	.768	.70	4.2, −1	.984
	2.4, −1	.708		3.2, −1	.965
	1.8, −1	.648		2.4, −1	.934
	1 3, −1	.581		1.8, −1	.891
	1.0, −1	.527		1.3, −1	.825
	7.5, −2	.464		1.0, −1	.757
				7.5, −2	.669
.45	1.0, 0	.979		5.6, −2	.566
	7.5, −1	.953		4.2, −2	.456
	5.6, −1	.914		3.2, −2	.352
	4.2, −1	.862		2.4, −2	.249
	3.2, −1	.806		1.8, −2	.161
	2.4, −1	.740		1.3, −2	.087
	1.8, −1	.671		1.0, −2	.047
	1.3, −1	.593			
	1.0, −1	.532	.80	3.2, −1	.989
	7.5, −2	.465		2.4, −1	.974
	5.6, −2	.396		1.8, −1	.951
				1.3, −1	.914
.50	1.0, 0	.990		1.0, −1	.872
	7.5, −1	.973		7.5, −2	.814
	5.6, −1	.943		5.6, −2	.740
	4.2, −1	.899		4.2, −2	.650
	3.2, −1	.847		3.2, −2	.553
	2.4, −1	.781		2.4, −2	.441
	1.8, −1	.707		1.8, −2	.327
	1.3, −1	.620		1.3, −2	.208
	1.0, −1	.549		1.0, −2	.129
	7.5, −2	.473		7.5, −3	.066
	5.6, −2	.399		5.6, −3	.028

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 93]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 1	0.989	0.25	3.2, 0	0.977
	4.2, 1	.981		2.4, 0	.951
	3.2, 1	.972		1.8, 0	.911
	2.4, 1	.963		1.3, 0	.856
	1.8, 1	.953		1.0, 0	.808
	1.3, 1	.943		7.5, −1	.756
	1.0, 1	.934		5.6, −1	.705
	7.5, 0	.923		4.2, −1	.655
	5.6, 0	.910		3.2, −1	.605
	4.2, 0	.895		2.4, −1	.549
.10	1.8, 1	.987	.30	2.4, 0	.980
	1.3, 1	.973		1.8, 0	.953
	1.0, 1	.957		1.3, 0	.904
	7.5, 0	.937		1.0, 0	.854
	5.6, 0	.916		7.5, −1	.792
	4.2, 0	.897		5.6, −1	.727
	3.2, 0	.879		4.2, −1	.666
	2.4, 0	.859		3.2, −1	.609
	1.8, 0	.835		2.4, −1	.550
	1.3, 0	.804		1.8, −1	.487
.15	7.5, 0	.977	.35	1.8, 0	.979
	5.6, 0	.956		1.3, 0	.945
	4.2, 0	.928		1.0, 0	.902
	3.2, 0	.899		7.5, −1	.841
	2.4, 0	.868		5.6, −1	.770
	1.8, 0	.838		4.2, −1	.696
	1.3, 0	.805		3.2, −1	.627
	1.0, 0	.776		2.4, −1	.558
	7.5, −1	.740		1.8, −1	.490
				1.3, −1	.413
.20	5.6, 0	.987		1.0, −1	.350
	4.2, 0	.969			
	3.2, 0	.943	.40	1.3, 0	.973
	2.4, 0	.907		1.0, 0	.942
	1.8, 0	.865		7.5, −1	.891
	1.3, 0	.818		5.6, −1	.822
	1.0, 0	.781		4.2, −1	.744
	7.5, −1	.742		3.2, −1	.665
	5.6, −1	.699		2.4, −1	.582
	4.2, −1	.653		1.8, −1	.502

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	1.3, −1	0.417	0.60	1.8, −1	0.717
	1.0, −1	.351		1.3, −1	.596
	7.5, −2	.280		1.0, −1	.491
				7.5, −2	.375
.45	1.3, 0	.988		5.6, −2	.266
	1.0, 0	.969		4.2, −2	.175
	7.5, −1	.931		3.2, −2	.109
	5.6, −1	.873		2.4, −2	.059
	4.2, −1	.799		1.8, −2	.028
	3.2, −1	.718			
	2.4, −1	.626	.70	4.2, −1	.977
	1.8, −1	.533		3.2, −1	.949
	1.3, −1	.432		2.4, −1	.904
	1.0, −1	.358		1.8, −1	.842
	7.5, −2	.282		1.3, −1	.749
	5.6, −2	.211		1.0, −1	.659
	4.2, −2	.149		7.5, −2	.546
				5.6, −2	.424
.50	1.0, 0	.985		4.2, −2	.304
	7.5, −1	.960		3.2, −2	.202
	5.6, −1	.916		2.4, −2	.115
	4.2, −1	.853		1.8, −2	.056
	3.2, −1	.777		1.3, −2	.019
	2.4, −1	.684			
	1.8, −1	.583	.80	3.2, −1	.983
	1.3, −1	.468		2.4, −1	.962
	1.0, −1	.380		1.8, −1	.929
	7.5, −2	.292		1.3, −1	.875
	5.6, −2	.215		1.0, −1	.819
	4.2, −2	.149		7.5, −2	.742
	3.2, −2	.098		5.6, −2	.648
	2.4, −2	.056		4.2, −2	.544
				3.2, −2	.441
.60	7.5, −1	.990		2.4, −2	.333
	5.6, −1	.970		1.8, −2	.235
	4.2, −1	.934		1.3, −2	.145
	3.2, −1	.881		1.0, −2	.089
	2.4, −1	.808		7.5, −3	.047

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 94]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6, 1	0.986	0.25	4.2, −1	0.562
	4.2, 1	.975		3.2, −1	.502
	3.2, 1	.964		2.4, −1	.436
	2.4, 1	.951	.30	2.4, 0	.974
	1.8, 1	.940		1.8, 0	.939
	1.3, 1	.927		1.3, 0	.876
	1.0, 1	.915		1.0, 0	.811
	7.5, 0	.901		7.5, −1	.732
	5.6, 0	.884		5.6, −1	.651
	4.2, 0	.864		4.2, −1	.575
				3.2, −1	.507
.10	1.8, 1	.984		2.4, −1	.437
	1.3, 1	.965		1.8, −1	.367
	1.0, 1	.944			
	7.5, 0	.918	.35	1.8, 0	.973
	5.6, 0	.892		1.3, 0	.929
	4.2, 0	.867		1.0, 0	.874
	3.2, 0	.844		7.5, −1	.796
	2.4, 0	.817		5.6, −1	.705
	1.8, 0	.788		4.2, −1	.613
	1.3, 0	.748		3.2, −1	.529
				2.4, −1	.447
.15	1.0, 1	.988		1.8, −1	.370
	7.5, 0	.971		1.3, −1	.287
	5.6, 0	.943		1.0, −1	.224
	4.2, 0	.907			
	3.2, 0	.869	.40	1.8, 0	.990
	2.4, 0	.829		1.3, 0	.965
	1.8, 0	.792		1.0, 0	.925
	1.3, 0	.749		7.5, −1	.859
	1.0, 0	.712		5.6, −1	.772
	7.5, −1	.667		4.2, −1	.673
				3.2, −1	.576
.20	5.6, 0	.984		2.4, −1	.476
	4.2, 0	.961		1.8, −1	.384
	3.2, 0	.926		1.3, −1	.292
	2.4, 0	.879		1.0, −1	.225
	1.8, 0	.826		7.5, −2	.160
	1.3, 0	.765			
	1.0, 0	.719	.45	1.3, 0	.984
	7.5, −1	.669		1.0, 0	.960
	5.6, −1	.616		7.5, −1	.911
	4.2, −1	.560		5.6, −1	.837
				4.2, −1	.743
.25	4.2, 0	.989		3.2, −1	.641
	3.2, 0	.971		2.4, −1	.529
	2.4, 0	.936		1.8, −1	.420
	1.8, 0	.885		1.3, −1	.310
	1.3, 0	.814		1.0, −1	.233
	1.0, 0	.753		7.5, −2	.162
	7.5, −1	.687		5.6, −2	.104
	5.6, −1	.623		4.2, −2	.060

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.20$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.50	1.0,0	0.981	0.70	5.6,−1	0.990
	7.5,−1	.949		4.2,−1	.970
	5.6,−1	.892		3.2,−1	.934
	4.2,−1	.811		2.4,−1	.877
	3.2,−1	.715		1.8,−1	.798
	2.4,−1	.601		1.3,−1	.687
	1.8,−1	.481		1.0,−1	.583
	1.3,−1	.351		7.5,−2	.460
	1.0,−1	.258		5.6,−2	.336
	7.5,−2	.173		4.2,−2	.225
	5.6,−2	.108		3.2,−2	.139
	4.2,−2	.061		2.4,−2	.073
	3.2,−2	.031		1.8,−2	.033
.60	7.5,−1	.987	.80	3.2,−1	.978
	5.6,−1	.961		2.4,−1	.951
	4.2,−1	.914		1.8,−1	.909
	3.2,−1	.848		1.3,−1	.842
	2.4,−1	.755		1.0,−1	.775
	1.8,−1	.643		7.5,−2	.687
	1.3,−1	.502		5.6,−2	.588
	1.0,−1	.385		4.2,−2	.485
	7.5,−2	.265		3.2,−2	.390
	5.6,−2	.162		2.4,−2	.297
	4.2,−2	.088		1.8,−2	.214
	3.2,−2	.042		1.3,−2	.136
				1.0,−2	.086
				7.5,−3	.046

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 95]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6,1	0.983	0.30	7.5,−1	0.680
	4.2,1	.970		5.6,−1	.586
	3.2,1	.956		4.2,−1	.499
	2.4,1	.942		3.2,−1	.424
	1.8,1	.928		2.4,−1	.348
	1.3,1	.912		1.8,−1	.276
	1.0,1	.898		1.3,−1	.198
	7.5,0	.881	.35	2.4,0	.990
	5.6,0	.860		1.8,0	.967
	4.2,0	.837		1.3,0	.915
	3.2,0	.812		1.0,0	.848
				7.5,−1	.755
.10	1.8,1	.980		5.6,−1	.649
	1.3,1	.957		4.2,−1	.543
	1.0,1	.932		3.2,−1	.448
	7.5,0	.901		2.4,−1	.350
	5.6,0	.870		1.8,−1	.279
	4.2,0	.840		1.3,−1	.198
	3.2,0	.813		1.0,−1	.141
	2.4,0	.781			
	1.8,0	.746	.40	1.8,0	.988
	1.3,0	.699		1.3,0	.957
				1.0,0	.910
.15	1.0,1	.985		7.5,−1	.831
	7.5,0	.965		5.6,−1	.727
	5.6,0	.931		4.2,−1	.612
	4.2,0	.888		3.2,−1	.501
	3.2,0	.843		2.4,−1	.391
	2.4,0	.795		1.8,−1	.294
	1.8,0	.750		1.3,−1	.203
	1.3,0	.700		1.0,−1	.143
	1.0,0	.657		7.5,−2	.089
	7.5,−1	.605			
			.45	1.3,0	.981
.20	5.6,0	.980		1.0,0	.952
	4.2,0	.952		7.5,−1	.893
	3.2,0	.911		5.6,−1	.804
	2.4,0	.855		4.2,−1	.694
	1.8,0	.791		3.2,−1	.577
	1.3,0	.719		2.4,−1	.451
	1.0,0	.665		1.8,−1	.334
	7.5,−1	.607		1.3,−1	.222
	5.6,−1	.546		1.0,−1	.151
	4.2,−1	.482		7.5,−2	.091
				5.6,−2	.049
.25	4.2,0	.987			
	3.2,0	.965	.50	1.0,0	.977
	2.4,0	.923		7.5,−1	.938
	1.8,0	.862		5.6,−1	.870
	1.3,0	.777		4.2,−1	.774
	1.0,0	.704		3.2,−1	.662
	7.5,−1	.627		2.4,−1	.532
	5.6,−1	.553		1.8,−1	.401
	4.2,−1	.484		1.3,−1	.266
	3.2,−1	.418		1.0,−1	.177
	2.4,−1	.347		7.5,−2	.103
				5.6,−2	.053
.30	3.2,0	.990		4.2,−2	.024
	2.4,0	.968			
	1.8,0	.926	.60	7.5,−1	.984
	1.3,0	.851		5.6,−1	.953
	1.0,0	.774		4.2,−1	.897

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.25$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.60	3.2,−1	0.818	0.70	4.2,−2	0.190
	2.4,−1	.710		3.2,−2	.117
	1.8,−1	.583		2.4,−2	.063
	1.3,−1	.431		1.8,−2	.029
	1.0,−1	.312			
	7.5,−2	.198	.80	3.2,−1	.974
	5.6,−2	.109		2.4,−1	.941
	4.2,−2	.051		1.8,−1	.891
	3.2,−2	.020		1.3,−1	.815
				1.0,−1	.741
.70	5.6,−1	.988		7.5,−2	.649
	4.2,−1	.963		5.6,−2	.552
	3.2,−1	.921		4.2,−2	.457
	2.4,−1	.853		3.2,−2	.371
	1.8,−1	.762		2.4,−2	.287
	1.3,−1	.638		1.8,−2	.211
	1.0,−1	.527		1.3,−2	.136
	7.5,−2	.404		1.0,−2	.086
	5.6,−2	.288		7.5,−3	.046

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.30$

[Pl. 96]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	5.6,1	0.980	0.35	1.3,0	0.902
	4.2,1	.966		1.0,0	.827
	3.2,1	.950		7.5,−1	.722
	2.4,1	.933		5.6,−1	.602
	1.8,1	.917		4.2,−1	.486
	1.3,1	.899		3.2,−1	.385
	1.0,1	.883		2.4,−1	.292
	7.5,0	.864		1.8,−1	.214
	5.6,0	.841		1.3,−1	.139
	4.2,0	.814		1.0,−1	.091
	3.2,0	.785			
			.40	1.8,0	.986
.10	1.8,1	.978		1.3,0	.951
	1.3,1	.951		1.0,0	.897
	1.0,1	.923		7.5,−1	.807
	7.5,0	.887		5.6,−1	.690
	5.6,0	.851		4.2,−1	.562
	4.2,0	.818		3.2,−1	.442
	3.2,0	.786		2.4,−1	.327
	2.4,0	.751		1.8,−1	.230
	1.8,0	.710		1.3,−1	.144
	1.3,0	.658		1.0,−1	.092
				7.5,−2	.050
.15	1.0,1	.983			
	7.5,0	.959	.45	1.3,0	.979
	5.6,0	.921		1.0,0	.945
	4.2,0	.872		7.5,−1	.878
	3.2,0	.821		5.6,−1	.777
	2.4,0	.767		4.2,−1	.653
	1.8,0	.716		3.2,−1	.525
	1.3,0	.659		2.4,−1	.391
	1.0,0	.611		1.8,−1	.271
	7.5,−1	.553		1.3,−1	.163
				1.0,−1	.100
.20	5.6,0	.977		7.5,−2	.053
	4.2,0	.946		5.6,−2	.024
	3.2,0	.899			
	2.4,0	.834	.50	1.0,0	.973
	1.8,0	.762		7.5,−1	.929
	1.3,0	.681		5.6,−1	.851
	1.0,0	.620		4.2,−1	.743
	7.5,−1	.555		3.2,−1	.619
	5.6,−1	.489		2.4,−1	.478
	4.2,−1	.420		1.8,−1	.342
				1.3,−1	.209
.25	4.2,0	.985		1.0,−1	.126
	3.2,0	.960		7.5,−2	.064
	2.4,0	.912		5.6,−2	.027
	1.8,0	.843			
	1.3,0	.746	.60	7.5,−1	.982
	1.0,0	.664		5.6,−1	.947
	7.5,−1	.578		4.2,−1	.882
	5.6,−1	.497		3.2,−1	.793
	4.2,−1	.422		2.4,−1	.673
	3.2,−1	.353		1.8,−1	.538
	2.4,−1	.280		1.3,−1	.381
				1.0,−1	.266
.30	3.2,0	.988		7.5,−2	.161
	2.4,0	.964		5.6,−2	.083
	1.8,0	.916		4.2,−2	.037
	1.3,0	.830			
	1.0,0	.742	.70	5.6,−1	.986
	7.5,−1	.637		4.2,−1	.958
	5.6,−1	.533		3.2,−1	.910
	4.2,−1	.439		2.4,−1	.833
	3.2,−1	.359		1.8,−1	.733
	2.4,−1	.282		1.3,−1	.601
	1.8,−1	.210		1.0,−1	.489
	1.3,−1	.139		7.5,−2	.371
				5.6,−2	.264
.35	2.4,0	.988		4.2,−2	.176
	1.8,0	.963		3.2,−2	.111

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=165°;\ \frac{\theta}{\theta_0}=0.30$—Continued			
0.70	2.4, −2	0.061	0.80	7.5, −2	0.625
	1.8, −2	.029		5.6, −2	.532
				4.2, −2	.444
.80	4.2, −1	.989		3.2, −2	.365
	3.2, −1	.970		2.4, −2	.285
	2.4, −1	.933		1.8, −2	.210
	1.8, −1	.877		1.3, −2	.136
	1.3, −1	.794		1.0, −2	.086
	1.0, −1	.716		7.5, −3	.046
		$\theta_0=165°;\ \frac{\theta}{\theta_0}=0.35$			
		[Pl. 97]			
0.05	7.5, 1	0.990	0.35	1.8, −1	0.169
	5.6, 1	.978		1.3, −1	.101
	4.2, 1	.962		1.0, −1	.061
	3.2, 1	.945	.40	1.8, 0	.985
	2.4, 1	.927		1.3, 0	.946
	1.8, 1	.909		1.0, 0	.886
	1.3, 1	.889		7.5−1	.788
	1.0, 1	.872		5.6, −1	.661
	7.5, 0	.850		4.2, −1	.524
	5.6, 0	.825		3.2, −1	.398
	4.2, 0	.796		2.4, −1	.281
	3.2, 0	.764		1.8, −1	.185
				1.3, −1	.106
.10	1.8, 1	.975		1.0, −1	.062
	1.3, 1	.946		7.5, −2	.030
	1.0, 1	.915			
	7.5, 0	.876	.45	1.3, 0	.976
	5.6, 0	.836		1.0, 0	.939
	4.2, 0	.799		7.5, −1	.866
	3.2, 0	.765		5.6, −1	.756
	2.4, 0	.726		4.2, −1	.622
	1.8, 0	.682		3.2, −1	.485
	1.3, 0	.626		2.4, −1	.347
				1.8, −1	.228
.15	1.0, 1	.981		1.3, −1	.126
	7.5, 0	.955		1.0, −1	.070
	5.6, 0	.913		7.5, −2	.032
	4.2, 0	.859			
	3.2, 0	.803	.50	1.0, 0	.971
	2.4, 0	.744		7.5, −1	.922
	1.8, 0	.688		5.6, −1	.837
	1.3, 0	.627		4.2, −1	.718
	1.0, 0	.575		3.2, −1	.586
	7.5, −1	.513		2.4, −1	.439
				1.8, −1	.301
.20	5.6, 0	.975		1.3, −1	.172
	4.2, 0	.940		1.0, −1	.097
	3.2, 0	.888		7.5, −2	.044
	2.4, 0	.818			
	1.8, 0	.738	.60	7.5, −1	.980
	1.3, 0	.650		5.6, −1	.941
	1.0, 0	.584		4.2, −1	.871
	7.5, −1	.515		3.2, −1	.773
	5.6, −1	.445		2.4, −1	.645
	4.2, −1	.374		1.8, −1	.504
				1.3, −1	.348
.25	4.2, 0	.983		1.0, −1	.237
	3.2, 0	.956		7.5, −2	.141
	2.4, 0	.903		5.6, −2	.072
	1.8, 0	.827		4.2, −2	.031
	1.3, 0	.721			
	1.0, 0	.632	.70	5.6, −1	.984
	7.5, −1	.539		4.2, −1	.954
	5.6, −1	.454		3.2, −1	.901
	4.2, −1	.376		2.4, −1	.818
	3.2, −1	.305		1.8, −1	.711
	2.4, −1	.233		1.3, −1	.575
				1.0, −1	.465
.30	3.2, 0	.987		7.5, −2	.353
	2.4, 0	.960		5.6, −2	.253
	1.8, 0	.907		4.2, −2	.171
	1.3, 0	.813		3.2, −2	.109
	1.0, 0	.717		2.4, −2	.061
	7.5, −1	.603		1.8, −2	.029
	5.6, −1	.492			
	4.2, −1	.393	80	4.2, −1	.988
	3.2, −1	.311		3.2, −1	.967
	2.4, −1	.234		2.4, −1	.926
	1.8, −1	.166		1.8, −1	.866
	1.3, −1	.101		1.3, −1	.778
				1.0, −1	.699
.35	2.4, 0	.987		7.5, −2	.611
	1.8, 0	.959		5.6, −2	.523
	1.3, 0	.893		4.2, −2	.440
	1.0, 0	.810		3.2, −2	.363
	7.5, −1	.695		2.4, −2	.285
	5.6, −1	.566		1.8, −2	.210
	4.2, −1	.443		1.3, −2	.136
	3.2, −1	.338		1.0, −2	.086
	2.4, −1	.245		7.5, −3	.046

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=165°;\ \frac{\theta}{\theta_0}=0.40$			
		[Pl. 98]			
0.05	7.5, 1	0.989	0.35	2.4, −1	0.214
	5.6, 1	.977		1.8, −1	.141
	4.2, 1	.960		1.3, −1	.079
	3.2, 1	.941		1.0, −1	.044
	2.4, 1	.922			
	1.8, 1	.903	.40	1.8, 0	.984
	1.3, 1	.881		1.3, 0	.943
	1.0, 1	.863		1.0, 0	.879
	7.5, 0	.840		7.5, −1	.774
	5.6, 0	.813		5.6, −1	.640
	4.2, 0	.782		4.2, −1	.497
	3.2, 0	.749		3.2, −1	.368
				2.4, −1	.250
.10	2.4, 1	.990		1.8, −1	.157
	1.8, 1	.974		1.3, −1	.084
	1.3, 1	.943		1.0, −1	.045
	1.0, 1	.909			
	7.5, 0	.868	.45	1.3, 0	.975
	5.6, 0	.826		1.0, 0	.935
	4.2, 0	.786		7.5, −1	.857
	3.2, 0	.750		5.6, −1	.740
	2.4, 0	.708		4.2, −1	.599
	1.8, 0	.662		3.2, −1	.458
	1.3, 0	.603		2.4, −1	.318
				1.8, −1	.200
				1.3, −1	.104
.15	1.0, 1	.980		1.0, −1	.053
	7.5, 0	.952		7.5, −2	.022
	5.6, 0	.907			
	4.2, 0	.850	.50	1.0, 0	.969
	3.2, 0	.790		7.5, −1	.917
	2.4, 0	.727		5.6, −1	.826
	1.8, 0	.668		4.2, −1	.701
	1.3, 0	.604		3.2, −1	.562
	1.0, 0	.549		2.4, −1	.412
	7.5, −1	.485		1.8, −1	.274
				1.3, −1	.150
.20	5.6, 0	.973		1.0, −1	.080
	4.2, 0	.936		7.5, −2	.034
	3.2, 0	.881			
	2.4, 0	.805	.60	7.5, −1	.978
	1.8, 0	.721		5.6, −1	.937
	1.3, 0	.628		4.2, −1	.862
	1.0, 0	.559		3.2, −1	.759
	7.5, −1	.487		2.4, −1	.626
	5.6, −1	.414		1.8, −1	.482
	4.2, −1	.341		1.3, −1	.328
				1.0, −1	.221
.25	4.2, 0	.982		7.5, −2	.130
	3.2, 0	.953		5.6, −2	.067
	2.4, 0	.897		4.2, −2	.030
	1.8, 0	.815			
	1.3, 0	.703	.70	5.6, −1	.983
	1.0, 0	.609		4.2, −1	.951
	7.5, −1	.512		3.2, −1	.895
	5.6, −1	.423		2.4, −1	.806
	4.2, −1	.344		1.8, −1	.696
	3.2, −1	.272		1.3, −1	.559
	2.4, −1	.201		1.0, −1	.451
				7.5, −2	.343
.30	3.2, 0	.986		5.6, −2	.248
	2.4, 0	.957		4.2, −2	.169
	1.8, 0	.901		3.2, −2	.109
	1.3, 0	.801		2.4, −2	.061
	1.0, 0	.699		1.8, −2	.029
	7.5, −1	.579			
	5.6, −1	.463	.80	4.2, −1	.987
	4.2, −1	.361		3.2, −1	.965
	3.2, −1	.279		2.4, −1	.922
	2.4, −1	.203		1.8, −1	.858
	1.8, −1	.138		1.3, −1	.767
	1.3, −1	.079		1.0, −1	.688
				7.5, −2	.602
.35	2.4, 0	.986		5.6, −2	.518
	1.8, 0	.956		4.2, −2	.438
	1.3, 0	.885		3.2, −2	.363
	1.0, 0	.797		2.4, −2	.285
	7.5, −1	.675		1.8, −2	.210
	5.6, −1	.540		1.3, −2	.136
	4.2, −1	.413		1.0, −2	.086
	3.2, −1	.306		7.5, −3	.046
		$\theta_0=165°;\ \frac{\theta}{\theta_0}=0.45$			
		[Pl. 99]			
0.05	7.5, 1	0.988	0.05	5.6, 0	0.806
	5.6, 1	.976		4.2, 0	.774
	4.2, 1	.958		3.2, 0	.739
	3.2, 1	.939			
	2.4, 1	.919	.10	2.4, 1	.989
	1.8, 1	.899		1.8, 1	.973
	1.3, 1	.877		1.3, 1	.940
	1.0, 1	.858		1.0, 1	.906
	7.5, 0	.834		7.5, 0	.863

$\theta_0=165$; $\frac{\theta}{\theta_0}=0.45$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	5.6, 0	0.819	0.40	5.6, −1	0.627
	4.2, 0	.778		4.2, −1	.481
	3.2, 0	.740		3.2, −1	.350
	2.4, 0	.698		2.4, −1	.232
	1.8, 0	.650		1.8, −1	.142
	1.3, 0	.589		1.3, −1	.072
				1.0, −1	.037
.15	1.0, 1	.979			
	7.5, 0	.950	.45	1.3, 0	.974
	5.6, 0	.904		1.0, 0	.933
	4.2, 0	.844		7.5, −1	.852
	3.2, 0	.782		5.6, −1	.731
	2.4, 0	.717		4.2, −1	.586
	1.8, 0	.656		3.2, −1	.442
	1.3, 0	.590		2.4, −1	.301
	1.0, 0	.534		1.8, −1	.185
	7.5, −1	.468		1.3, −1	.092
				1.0, −1	.045
.20	5.6, 0	.972	.50	1.3, 0	.990
	4.2, 0	.934		1.0, 0	.968
	3.2, 0	.876		7.5, −1	.914
	2.4, 0	.798		5.6, −1	.820
	1.8, 0	.711		4.2, −1	.690
	1.3, 0	.615		3.2, −1	.549
	1.0, 0	.543		2.4, −1	.396
	7.5, −1	.470		1.8, −1	.259
	5.6, −1	.396		1.3, −1	.138
	4.2, −1	.323		1.0, −1	.072
				7.5, −2	.029
.25	4.2, 0	.981			
	3.2, 0	.951	.60	7.5, −1	.978
	2.4, 0	.893		5.6, −1	.935
	1.8, 0	.808		4.2, −1	.857
	1.3, 0	.692		3.2, −1	.751
	1.0, 0	.595		2.4, −1	.614
	7.5, −1	.495		1.8, −1	.469
	5.6, −1	.405		1.3, −1	.317
	4.2, −1	.325		1.0, −1	.213
	3.2, −1	.254		7.5, −2	.126
	2.4, −1	.184		5.6, −2	.065
				4.2, −2	.029
.30	3.2, 0	.986			
	2.4, 0	.956	.70	5.6, −1	.983
	1.8, 0	.897		4.2, −1	.949
	1.3, 0	.793		3.2, −1	.891
	1.0, 0	.688		2.4, −1	.800
	7.5, −1	.564		1.8, −1	.687
	5.6, −1	.445		1.3, −1	.550
	4.2, −1	.343		1.0, −1	.443
	3.2, −1	.260		7.5, −2	.338
	2.4, −1	.185		5.6, −2	.246
	1.8, −1	.122		4.2, −2	.168
	1.3, −1	.067		3.2, −2	.108
				2.4, −2	.061
.35	2.4, 0	.986		1.8, −2	.029
	1.8, 0	.954			
	1.3, 0	.881	.80	4.2, −1	.987
	1.0, 0	.790		3.2, −1	.963
	7.5, −1	.664		2.4, −1	.919
	5.6, −1	.525		1.8, −1	.853
	4.2, −1	.395		1.3, −1	.761
	3.2, −1	.288		1.0, −1	.683
	2.4, −1	.196		7.5, −2	.598
	1.8, −1	.125		5.6, −2	.516
	1.3, −1	.067		4.2, −2	.437
	1.0, −1	.036		3.2, −2	.363
				2.4, −2	.285
.40	1.8, 0	.983		1.8, −2	.210
	1.3, 0	.940		1.3, −2	.136
	1.0, 0	.874		1.0, −2	.086
	7.5, −1	.766		7.5, −3	.046

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.50$

[Pl. 100]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	7.5, 1	0.988	0.10	3.2, 0	0.737
	5.6, 1	.975		2.4, 0	.694
	4.2, 1	.958		1.8, 0	.646
	3.2, 1	.938		1.3, 0	.584
	2.4, 1	.918			
	1.8, 1	.898	.15	1.0, 1	.979
	1.3, 1	.875		7.5, 0	.950
	1.0, 1	.856		5.6, 0	.903
	7.5, 0	.832		4.2, 0	.842
	5.6, 0	.804		3.2, 0	.779
	4.2, 0	.771		2.4, 0	.713
	3.2, 0	.736		1.8, 0	.652
				1.3, 0	.585
.10	2.4, 1	.989		1.0, 0	.528
	1.8, 1	.972		7.5, −1	.462
	1.3, 1	.940			
	1.0, 1	.904	.20	5.6, 0	.972
	7.5, 0	.861		4.2, 0	.933
	5.6, 0	.817		3.2, 0	.875
	4.2, 0	.775		2.4, 0	.796

$\theta_0=165°$; $\frac{\theta}{\theta_0}=0.50$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.20	1.8, 0	0.707	0.45	5.6, −1	0.728
	1.3, 0	.610		4.2, −1	.581
	1.0, 0	.538		3.2, −1	.437
	7.5, −1	.464		2.4, −1	.296
	5.6, −1	.390		1.8, −1	.180
	4.2, −1	.316		1.3, −1	.088
				1.0, −1	.043
.25	4.2, 0	.981			
	3.2, 0	.950	.50	1.3, 0	.990
	2.4, 0	.891		1.0, 0	.967
	1.8, 0	.806		7.5, −1	.913
	1.3, 0	.688		5.6, −1	.817
	1.0, 0	.590		4.2, −1	.687
	7.5, −1	.490		3.2, −1	.544
	5.6, −1	.399		2.4, −1	.391
	4.2, −1	.319		1.8, −1	.254
	3.2, −1	.248		1.3, −1	.135
	2.4, −1	.178		1.0, −1	.069
				7.5, −2	.027
.30	3.2, 0	.985			
	2.4, 0	.955	.60	7.5, −1	.977
	1.8, 0	.896		5.6, −1	.934
	1.3, 0	.791		4.2, −1	.856
	1.0, 0	.684		3.2, −1	.748
	7.5, −1	.560		2.4, −1	.610
	5.6, −1	.440		1.8, −1	.465
	4.2, −1	.337		1.3, −1	.313
	3.2, −1	.254		1.0, −1	.211
	2.4, −1	.179		7.5, −2	.124
	1.8, −1	.117		5.6, −2	.064
	1.3, −1	.063		4.2, −2	.029
.35	2.4, 0	.985	.70	5.6, −1	.982
	1.8, 0	.954		4.2, −1	.948
	1.3, 0	.880		3.2, −1	.889
	1.0, 0	.787		2.4, −1	.797
	7.5, −1	.660		1.8, −1	.684
	5.6, −1	.520		1.3, −1	.547
	4.2, −1	.389		1.0, −1	.441
	3.2, −1	.282		7.5, −2	.337
	2.4, −1	.191		5.6, −2	.245
	1.8, −1	.120		4.2, −2	.168
	1.3, −1	.064		3.2, −2	.108
	1.0, −1	.033		2.4, −2	.061
				1.8, −2	.029
.40	1.8, 0	.983	.80	4.2, −1	.986
	1.3, 0	.940		3.2, −1	.963
	1.0, 0	.873		2.4, −1	.918
	7.5, −1	.763		1.8, −1	.851
	5.6, −1	.623		1.3, −1	.759
	4.2, −1	.476		1.0, −1	.681
	3.2, −1	.344		7.5, −2	.597
	2.4, −1	.227		5.6, −2	.516
	1.8, −1	.137		4.2, −2	.437
	1.3, −1	.068		3.2, −2	.363
	1.0, −1	.034		2.4, −2	.285
				1.8, −2	.210
.45	1.3, 0	.974		1.3, −2	.136
	1.0, 0	.932		1.0, −2	.086
	7.5, −1	.850		7.5, −3	.046

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 101]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	3.2, 1	0.987	0.20	1.0, 0	0.914
	2.4, 1	.983		7.5, −1	.899
	1.8, 1	.980		5.6, −1	.883
	1.3, 1	.976			
	1.0, 1	.972	.25	2.4, 0	.979
	7.5, 0	.968		1.8, 0	.964
	5.6, 0	.963		1.3, 0	.943
				1.0, 0	.924
.10	1.3, 1	.988		7.5, −1	.904
	1.0, 1	.981		5.6, −1	.885
	7.5, 0	.973		4.2, −1	.865
	5.6, 0	.965		3.2, −1	.845
	4.2, 0	.958			
	3.2, 0	.951	.30	1.8, 0	.980
	2.4, 0	.943		1.3, 0	.961
	1.8, 0	.934		1.0, 0	.942
				7.5, −1	.918
.15	7.5, 0	.990		5.6, −1	.894
	5.6, 0	.981		4.2, −1	.870
	4.2, 0	.970		3.2, −1	.847
	3.2, 0	.959		2.4, −1	.822
	2.4, 0	.947		1.8, −1	.794
	1.8, 0	.936	.35	1.3, 0	.977
	1.3, 0	.923		1.0, 0	.961
	1.0, 0	.912		7.5, −1	.938
				5.6, −1	.910
.20	4.2, 0	.987		4.2, −1	.882
	3.2, 0	.976		3.2, −1	.854
	2.4, 0	.962		2.4, −1	.825
	1.8, 0	.946		1.8, −1	.795
	1.3, 0	.928		1.3, −1	.759

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.05$—Continued			
0.40	1.3,0	0.988	0.60	1.0,−1	0.790
	1.0,0	.976		7.5,−2	.731
	7.5,−1	.957		5.6,−2	.668
	5.6,−1	.931		4.2,−2	.604
	4.2,−1	.900		3.2,−2	.543
	3.2,−1	.869		2.4,−2	.477
	2.4,−1	.835		1.8,−2	.410
	1.8,−1	.801		1.3,−2	.332
	1.3,−1	.761		1.0,−2	.269
	1.0,−1	.727	.70	3.2,−1	.980
	7.5,−2	.686		2.4,−1	.963
.45	1.0,0	.987		1.8,−1	.939
	7.5,−1	.972		1.3,−1	.901
	5.6,−1	.950		1.0,−1	.862
	4.2,−1	.922		7.5,−2	.809
	3.2,−1	.890		5.6,−2	.745
	2.4,−1	.853		4.2,−2	.672
	1.8,−1	.814		3.2,−2	.596
	1.3,−1	.768		2.4,−2	.512
	1.0,−1	.730		1.8,−2	.429
	7.5,−2	.687		1.3,−2	.339
	5.6,−2	.640		1.0,−2	.271
				7.5,−3	.202
.50	7.5,−1	.984		5.6,−3	.139
	5.6,−1	.967		4.2,−3	.088
	4.2,−1	.943		3.2,−3	.051
	3.2,−1	.913	.80	2.4,−1	.985
	2.4,−1	.877		1.8,−1	.973
	1.8,−1	.835		1.3,−1	.952
	1.3,−1	.784		1.0,−1	.928
	1.0,−1	.741		7.5,−2	.894
	7.5,−2	.692		5.6,−2	.848
	5.6,−2	.642		4.2,−2	.791
	4.2,−2	.590		3.2,−2	.725
	3.2,−2	.536		2.4,−2	.642
	2.4,−2	.475		1.8,−2	.547
				1.3,−2	.431
.60	5.6,−1	.988		1.0,−2	.337
	4.2,−1	.974		7.5,−3	.241
	3.2,−1	.954		5.6,−3	.158
	2.4,−1	.925		4.2,−3	.095
	1.8,−1	.889		3.2,−3	.052
	1.3,−1	.838		2.4,−3	.024

$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.10$

[Pl. 102]

0.05	5.6,1	0.989	0.25	7.5,−1	0.812
	4.2,1	.982		5.6,−1	.775
	3.2,1	.975		4.2,−1	.737
	2.4,1	.967		3.2,−1	.699
	1.8,1	.960		2.4,−1	.656
	1.3,1	.952			
	1.0,1	.945	.30	2.4,0	.982
	7.5,0	.936		1.8,0	.961
	5.6,0	.926		1.3,0	.924
	4.2,0	.915		1.0,0	.886
				7.5,−1	.840
.10	1.8,1	.988		5.6,−1	.792
	1.3,1	.976		4.2,−1	.746
	1.0,1	.963		3.2,−1	.703
	7.5,0	.947		2.4,−1	.656
	5.6,0	.931		1.8,−1	.607
	4.2,0	.917			
	3.2,0	.903	.35	1.8,0	.982
	2.4,0	.888		1.3,0	.955
	1.8,0	.871		1.0,0	.923
				7.5,−1	.877
.15	7.5,0	.980		5.6,−1	.824
	5.6,0	.962		4.2,−1	.769
	4.2,0	.941		3.2,−1	.717
	3.2,0	.918		2.4,−1	.663
	2.4,0	.895		1.8,−1	.609
	1.8,0	.873		1.3,−1	.545
	1.3,0	.848		1.0,−1	.490
	1.0,0	.827			
	7.5,−1	.801	.40	1.3,0	.977
				1.0,0	.953
.20	5.6,0	.988		7.5,−1	.914
	4.2,0	.974		5.6,−1	.864
	3.2,0	.953		4.2,−1	.805
	2.4,0	.925		3.2,−1	.746
	1.8,0	.893		2.4,−1	.682
	1.3,0	.858		1.8,−1	.618
	1.0,0	.831		1.3,−1	.548
	7.5,−1	.802		1.0,−1	.491
	5.6,−1	.770		7.5,−2	.425
	4.2,−1	.736			
			.45	1.3,0	.989
.25	3.2,0	.980		1.0,0	.974
	2.4,0	.959		7.5,−1	.945
	1.8,0	.929		5.6,−1	.092
	1.3,0	.887		4.2,−1	.847
	1.0,0	.851		3.2,−1	.786

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.10$—Continued			
0.45	2.4,−1	0.716	0.60	1.8,−2	0.104
	1.8,−1	.643		1.3,−2	.055
	1.3,−1	.561		1.0,−2	.029
	1.0,−1	.496			
	7.5,−2	.427	.70	4.2,−1	.981
	5.6,−2	.356		3.2,−1	.960
				2.4,−1	.927
.50	1.0,0	.987		1.8,−1	.880
	7.5,−1	.968		1.3,−1	.809
	5.6,−1	.934		1.0,−1	.738
	4.2,−1	.887		7.5,−2	.644
	3.2,−1	.831		5.6,−2	.536
	2.4,−1	.760		4.2,−2	.422
	1.8,−1	.682		3.2,−2	.316
	1.3,−1	.589		2.4,−2	.214
	1.0,−1	.514		1.8,−2	.131
	7.5,−2	.436		1.3,−2	.065
	5.6,−2	.359		1.0,−2	.032
	4.2,−2	.287			
	3.2,−2	.222	.80	3.2,−1	.986
	2.4,−2	.158		2.4,−1	.971
				1.8,−1	.946
.60	5.6,−1	.976		1.3,−1	.906
	4.2,−1	.948		1.0,−1	.862
	3.2,−1	.909		7.5,−2	.800
	2.4,−1	.854		5.6,−2	.721
	1.8,−1	.785		4.2,−2	.627
	1.3,−1	.690		3.2,−2	.527
	1.0,−1	.604		2.4,−2	.413
	7.5,−2	.504		1.8,−2	.301
	5.6,−2	.403		1.3,−2	.187
	4.2,−2	.310		1.0,−2	.114
	3.2,−2	.232		7.5,−3	.058
	2.4,−2	.161		5.6,−3	.024

$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.15$

[Pl. 103]

0.05	5.6,1	0.984	0.30	2.4,0	0.974
	4.2,1	.974		1.8,0	.942
	3.2,1	.963		1.3,0	.888
	2.4,1	.952		1.0,0	.833
	1.8,1	.941		7.5,−1	.766
	1.3,1	.929		5.6,−1	.698
	1.0,1	.919		4.2,−1	.634
	7.5,0	.907		3.2,−1	.575
	5.6,0	.892		2.4,−1	.513
	4.2,0	.876		1.8,−1	.449
.10	1.8,1	.983	.35	1.8,0	.973
	1.3,1	.964		1.3,0	.934
	1.0,1	.945		1.0,0	.887
	7.5,0	.922		7.5,−1	.820
	5.6,0	.899		5.6,−1	.744
	4.2,0	.878		4.2,−1	.666
	3.2,0	.858		3.2,−1	.594
	2.4,0	.836		2.4,−1	.522
	1.8,0	.811		1.8,−1	.452
	1.3,0	.778		1.3,−1	.374
				1.0,−1	.310
.15	1.0,1	.987			
	7.5,0	.970	.40	1.8,0	.990
	5.6,0	.945		1.3,0	.966
	4.2,0	.913		1.0,0	.931
	3.2,0	.880		7.5,−1	.875
	2.4,0	.846		5.6,−1	.801
	1.8,0	.814		4.2,−1	.718
	1.3,0	.779		3.2,−1	.635
	1.0,0	.748		2.4,−1	.548
	7.5,−1	.711		1.8,−1	.465
				1.3,−1	.378
.20	5.6,0	.983		1.0,−1	.311
	4.2,0	.961		7.5,−2	.241
	3.2,0	.931			
	2.4,0	.889	.45	1.3,0	.984
	1.8,0	.844		1.0,0	.962
	1.3,0	.793		7.5,−1	.920
	1.0,0	.754		5.6,−1	.857
	7.5,−1	.712		4.2,−1	.778
	5.6,−1	.668		3.2,−1	.692
	4.2,−1	.620		2.4,−1	.595
				1.8,−1	.497
.25	4.2,0	.988		1.3,−1	.394
	3.2,0	.971		1.0,−1	.318
	2.4,0	.940		7.5,−2	.243
	1.8,0	.895		5.6,−2	.175
	1.3,0	.834		4.2,−2	.117
	1.0,0	.783			
	7.5,−1	.727	.50	1.0,0	.981
	5.6,−1	.674		7.5,−1	.952
	4.2,−1	.622		5.6,−1	.904
	3.2,−1	.571		4.2,−1	.835
	2.4,−1	.512		3.2,−1	.755

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.50	2.4, −1	0.657	0.70	3.2, −1	0.942
	1.8, −1	.551		2.4, −1	.894
	1.3, −1	.431		1.8, −1	.827
	1.0, −1	.341		1.3, −1	.730
	7.5, −2	.254		1.0, −1	.636
	5.6, −2	.179		7.5, −2	.519
	4.2, −2	.118		5.6, −2	.395
	3.2, −2	.073		4.2, −2	.276
	2.4, −2	.038		3.2, −2	.178
				2.4, −2	.098
.60	7.5, −1	.987		1.8, −2	.045
	5.6, −1	.964			
	4.2, −1	.924	.80	3.2, −1	.980
	3.2, −1	.868		2.4, −1	.957
	2.4, −1	.789		1.8, −1	.922
	1.8, −1	.693		1.3, −1	.865
	1.3, −1	.567		1.0, −1	.805
	1.0, −1	.458		7.5, −2	.725
	7.5, −2	.340		5.6, −2	.629
	5.6, −2	.231		4.2, −2	.524
	4.2, −2	.144		3.2, −2	.422
	3.2, −2	.083		2.4, −2	.319
	2.4, −2	.041		1.8, −2	.226
				1.3, −2	.140
.70	5.6, −1	.990		1.0, −2	.088
	4.2, −1	.972		7.5, −3	.046

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 104]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	7.5, 1	0.990	0.30	4.2, −1	0.537
	5.6, 1	.980		3.2, −1	.468
	4.2, 1	.967		2.4, −1	.397
	3.2, 1	.952		1.8, −1	.327
	2.4, 1	.938			
	1.8, 1	.924	.35	2.4, 0	.988
	1.3, 1	.909		1.8, 0	.965
	1.0, 1	.895		1.3, 0	.915
	7.5, 0	.879		1.0, 0	.854
	5.6, 0	.861		7.5, −1	.769
	4.2, 0	.839		5.6, −1	.673
				4.2, −1	.577
.10	1.8, 1	.978		3.2, −1	.491
	1.3, 1	.954		2.4, −1	.407
	1.0, 1	.929		1.8, −1	.330
	7.5, 0	.899		1.3, −1	.249
	5.6, 0	.869		1.0, −1	.189
	4.2, 0	.842			
	3.2, 0	.817	.40	1.8, 0	.986
	2.4, 0	.789		1.3, 0	.956
	1.8, 0	.757		1.0, 0	.911
	1.3, 0	.715		7.5, −1	.838
				5.6, −1	.745
.15	1.0, 1	.983		4.2, −1	.641
	7.5, 0	.962		3.2, −1	.540
	5.6, 0	.928		2.4, −1	.438
	4.2, 0	.887		1.8, −1	.345
	3.2, 0	.845		1.3, −1	.254
	2.4, 0	.802		1.0, −1	.190
	1.8, 0	.761		7.5, −2	.129
	1.3, 0	.716			
	1.0, 0	.678	.45	1.3, 0	.980
	7.5, −1	.631		1.0, 0	.951
				7.5, −1	.896
.20	5.6, 0	.978		5.6, −1	.816
	4.2, 0	.950		4.2, −1	.716
	3.2, 0	.910		3.2, −1	.610
	2.4, 0	.857		2.4, −1	.494
	1.8, 0	.799		1.8, −1	.383
	1.3, 0	.734		1.3, −1	.272
	1.0, 0	.685		1.0, −1	.198
	7.5, −1	.633		7.5, −2	.131
	5.6, −1	.579		5.6, −2	.079
	4.2, −1	.521		4.2, −2	.043
.25	4.2, 0	.985	.50	1.0, 0	.975
	3.2, 0	.963		7.5, −1	.938
	2.4, 0	.922		5.6, −1	.876
	1.8, 0	.865		4.2, −1	.789
	1.3, 0	.787		3.2, −1	.688
	1.0, 0	.721		2.4, −1	.569
	7.5, −1	.652		1.8, −1	.446
	5.6, −1	.586		1.3, −1	.315
	4.2, −1	.523		1.0, −1	.223
	3.2, −1	.463		7.5, −2	.143
	2.4, −1	.396		5.6, −2	.083
				4.2, −2	.043
.30	3.2, 0	.988			
	2.4, 0	.966	.60	7.5, −1	.983
	1.8, 0	.925		5.6, −1	.954
	1.3, 0	.855		4.2, −1	.902
	1.0, 0	.785		3.2, −1	.830
	7.5, −1	.701		2.4, −1	.733
	5.6, −1	.616		1.8, −1	.617

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.20$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.60	1.3, −1	0.472	0.70	2.4, −2	0.068
	1.0, −1	.354		1.8, −2	.031
	7.5, −2	.236			
	5.6, −2	.138	.80	4.2, −1	.990
	4.2, −2	.070		3.2, −1	.974
	3.2, −2	.031		2.4, −1	.945
				1.8, −1	.900
.70	5.6, −1	.987		1.3, −1	.830
	4.2, −1	.964		1.0, −1	.760
	3.2, −1	.925		7.5, −2	.671
	2.4, −1	.864		5.6, −2	.572
	1.8, −1	.782		4.2, −2	.472
	1.3, −1	.666		3.2, −2	.381
	1.0, −1	.559		2.4, −2	.292
	7.5, −2	.436		1.8, −2	.212
	5.6, −2	.314		1.3, −2	.136
	4.2, −2	.208		1.0, −2	.086
	3.2, −2	.128		7.5, −3	.046

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.25$

[Pl. 105]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	7.5, 1	0.988	0.35	2.4, 0	0.986
	5.6, 1	.976		1.8, 0	.958
	4.2, 1	.960		1.3, 0	.898
	3.2, 1	.943		1.0, 0	.825
	2.4, 1	.925		7.5, −1	.725
	1.8, 1	.908		5.6, −1	.613
	1.3, 1	.890		4.2, −1	.503
	1.0, 1	.874		3.2, −1	.408
	7.5, 0	.855		2.4, −1	.319
	5.6, 0	.833		1.8, −1	.242
	4.2, 0	.807		1.3, −1	.166
	3.2, 0	.780		1.0, −1	.114
.10	2.4, 1	.989	.40	1.8, 0	.984
	1.8, 1	.973		1.3, 0	.947
	1.3, 1	.945		1.0, 0	.893
	1.0, 1	.915		7.5, −1	.807
	7.5, 0	.879		5.6, −1	.696
	5.6, 0	.843		4.2, −1	.577
	4.2, 0	.811		3.2, −1	.463
	3.2, 0	.781		2.4, −1	.353
	2.4, 0	.747		1.8, −1	.258
	1.8, 0	.709		1.3, −1	.171
	1.3, 0	.661		1.0, −1	.115
				7.5, −2	.068
.15	1.0, 1	.980			
	7.5, 0	.954	.45	1.3, 0	.976
	5.6, 0	.914		1.0, 0	.941
	4.2, 0	.865		7.5, −1	.875
	3.2, 0	.814		5.6, −1	.780
	2.4, 0	.763		4.2, −1	.663
	1.8, 0	.715		3.2, −1	.542
	1.3, 0	.662		2.4, −1	.415
	1.0, 0	.617		1.8, −1	.298
	7.5, −1	.564		1.3, −1	.190
				1.0, −1	.123
.20	5.6, 0	.974		7.5, −2	.070
	4.2, 0	.940		5.6, −2	.035
	3.2, 0	.892			
	2.4, 0	.828	.50	1.0, 0	.971
	1.8, 0	.759		7.5, −1	.926
	1.3, 0	.682		5.6, −1	.851
	1.0, 0	.625		4.2, −1	.749
	7.5, −1	.566		3.2, −1	.632
	5.6, −1	.504		2.4, −1	.499
	4.2, −1	.440		1.8, −1	.367
				1.3, −1	.235
.25	4.2, 0	.982		1.0, −1	.150
	3.2, 0	.955		7.5, −2	.082
	2.4, 0	.906		5.6, −2	.039
	1.8, 0	.838			
	1.3, 0	.745	.60	7.5, −1	.980
	1.0, 0	.668		5.6, −1	.944
	7.5, −1	.587		4.2, −1	.882
	5.6, −1	.512		3.2, −1	.798
	4.2, −1	.442		2.4, −1	.686
	3.2, −1	.377		1.8, −1	.557
	2.4, −1	.307		1.3, −1	.404
				1.0, −1	.287
.30	3.2, 0	.986		7.5, −2	.178
	2.4, 0	.959		5.6, −2	.095
	1.8, 0	.910		4.2, −2	.043
	1.3, 0	.827			
	1.0, 0	.743	.70	5.6, −1	.984
	7.5, −1	.644		4.2, −1	.957
	5.6, −1	.546		3.2, −1	.910
	4.2, −1	.458		2.4, −1	.838
	3.2, −1	.383		1.8, −1	.744
	2.4, −1	.309		1.3, −1	.617
	1.8, −1	.239		1.0, −1	.507
	1.3, −1	.166		7.5, −2	.386

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.25$—Continued			
0.70	5.6, −2	0.274	0.85	1.0, −1	0.727
	4.2, −2	.182		7.5, −2	.636
	3.2, −2	.113		5.6, −2	.541
	2.4, −2	.062		4.2, −2	.450
	1.8, −2	.029		3.2, −2	.368
				2.4, −2	.286
.80	4.2, −1	.988		1.8, −2	.210
	3.2, −1	.969		1.3, −2	.136
	2.4, −1	.934		1.0, −2	.086
	1.8, −1	.881		7.5, −3	.046
	1.3, −1	.803			
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.30$ [Pl. 106]			
0.05	7.5,1	0.986	0.35	1.3, −1	0.113
	5.6,1	.972		1.0, −1	.070
	4.2,1	.954			
	3.2,1	.935	.40	1.8,0	.981
	2.4,1	.914		1.3,0	.940
	1.8,1	.895		1.0,0	.878
	1.3,1	.874		7.5, −1	.780
	1.0,1	.856		5.6, −1	.656
	7.5,0	.835		4.2, −1	.525
	5.6,0	.809		3.2, −1	.404
	4.2,0	.780		2.4, −1	.290
	3.2,0	.749		1.8, −1	.197
				1.3, −1	.118
.10	2.4,1	.987		1.0, −1	.072
	1.8,1	.970		7.5, −2	.037
	1.3,1	.937	.45	1.3,0	.972
	1.0,1	.902		1.0,0	.932
	7.5,0	.861		7.5, −1	.858
	5.6,0	.821		5.6, −1	.750
	4.2,0	.784		4.2, −1	.620
	3.2,0	.750		3.2, −1	.489
	2.4,0	.712		2.4, −1	.356
	1.8,0	.670		1.8, −1	.239
	1.3,0	.616		1.3, −1	.137
.15	1.0,1	.977		1.0, −1	.080
	7.5,0	.947		7.5, −2	.039
	5.6,0	.902	.50	1.3,0	.989
	4.2,0	.845		1.0,0	.966
	3.2,0	.788		7.5, −1	.916
	2.4,0	.730		5.6, −1	.830
	1.8,0	.676		4.2, −1	.715
	1.3,0	.617		3.2, −1	.588
	1.0,0	.567		2.4, −1	.446
	7.5, −1	.509		1.8, −1	.311
.20	5.6,0	.970		1.3, −1	.183
	4.2,0	.931		1.0, −1	.107
	3.2,0	.877		7.5, −2	.051
	2.4,0	.804		5.6, −2	.020
	1.8,0	.725	.60	7.5, −1	.977
	1.3,0	.640		5.6, −1	.936
	1.0,0	.576		4.2, −1	.866
	7.5, −1	.511		3.2, −1	.771
	5.6, −1	.445		2.4, −1	.648
	4.2, −1	.377		1.8, −1	.512
.25	4.2,0	.979		1.3, −1	.358
	3.2,0	.948		1.0, −1	.247
	2.4,0	.893		7.5, −2	.147
	1.8,0	.815		5.6, −2	.076
	1.3,0	.710		4.2, −2	.033
	1.0,0	.623	.70	5.6, −1	.982
	7.5, −1	.534		4.2, −1	.950
	5.6, −1	.453		3.2, −1	.898
	4.2, −1	.379		2.4, −1	.817
	3.2, −1	.312		1.8, −1	.714
	2.4, −1	.243		1.3, −1	.583
.30	3.2,0	.984		1.0, −1	.473
	2.4,0	.954		7.5, −2	.359
	1.8,0	.898		5.6, −2	.256
	1.3,0	.802		4.2, −2	.173
	1.0,0	.708		3.2, −2	.110
	7.5, −1	.597		2.4, −2	.061
	5.6, −1	.491		1.8, −2	.029
	4.2, −1	.396	.80	4.2, −1	.986
	3.2, −1	.318		3.2, −1	.965
	2.4, −1	.244		2.4, −1	.925
	1.8, −1	.178		1.8, −1	.866
	1.3, −1	.113		1.3, −1	.782
.35	2.4,0	.984		1.0, −1	.704
	1.8,0	.952		7.5, −2	.616
	1.3,0	.883		5.6, −2	.526
	1.0,0	.800		4.2, −2	.441
	7.5, −1	.687		3.2, −2	.364
	5.6, −1	.563		2.4, −2	.285
	4.2, −1	.445		1.8, −2	.210
	3.2, −1	.345		1.3, −2	.136
	2.4, −1	.255		1.0, −2	.086
	1.8, −1	.181		7.5, −3	.046

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.35$ [Pl. 107]			
0.05	7.5,1	0.985	0.35	2.4, −1	0.211
	5.6,1	.969		1.8, −1	.141
	4.2,1	.949		1.3, −1	.081
	3.2,1	.928		1.0, −1	.046
	2.4,1	.905	.40	1.8,0	.979
	1.8,1	.885		1.3,0	.933
	1.3,1	.862		1.0,0	.865
	1.0,1	.842		7.5, −1	.759
	7.5,0	.818		5.6, −1	.625
	5.6,0	.790		4.2, −1	.486
	4.2,0	.759		3.2, −1	.361
	3.2,0	.725		2.4, −1	.247
				1.8, −1	.157
.10	2.4,1	.986		1.3, −1	.086
	1.8,1	.966		1.0, −1	.048
	1.3,1	.930			
	1.0,1	.893	.45	1.3,0	.970
	7.5,0	.848		1.0,0	.926
	5.6,0	.803		7.5, −1	.844
	4.2,0	.763		5.6, −1	.726
	3.2,0	.726		4.2, −1	.587
	2.4,0	.684		3.2, −1	.450
	1.8,0	.639		2.4, −1	.314
	1.3,0	.581		1.8, −1	.200
				1.3, −1	.105
.15	1.0,1	.975		1.0, −1	.056
	7.5,0	.942		7.5, −2	.024
	5.6,0	.892			
	4.2,0	.830	.50	1.3,0	.988
	3.2,0	.767		1.0,0	.963
	2.4,0	.703		7.5, −1	.907
	1.8,0	.645		5.6, −1	.814
	1.3,0	.582		4.2, −1	.689
	1.0,0	.529		3.2, −1	.554
	7.5, −1	.467		2.4, −1	.408
				1.8, −1	.274
.20	7.5,0	.989		1.3, −1	.152
	5.6,0	.967		1.0, −1	.083
	4.2,0	.924		7.5, −2	.035
	3.2,0	.864			
	2.4,0	.785	.60	7.5, −1	.974
	1.8,0	.699		5.6, −1	.930
	1.3,0	.606		4.2, −1	.853
	1.0,0	.538		3.2, −1	.751
	7.5, −1	.469		2.4, −1	.620
	5.6, −1	.400		1.8, −1	.480
	4.2, −1	.331		1.3, −1	.329
				1.0, −1	.224
.25	4.2,0	.977		7.5, −2	.132
	3.2,0	.943		5.6, −2	.068
	2.4,0	.882		4.2, −2	.030
	1.8,0	.796			
	1.3,0	.682	.70	5.6, −1	.980
	1.0,0	.589		4.2, −1	.945
	7.5, −1	.494		3.2, −1	.888
	5.6, −1	.409		2.4, −1	.801
	4.2, −1	.333		1.8, −1	.693
	3.2, −1	.266		1.3, −1	.559
	2.4, −1	.198		1.0, −1	.453
				7.5, −2	.345
.30	3.2,0	.982		5.6, −2	.249
	2.4,0	.949		4.2, −2	.169
	1.8,0	.887		3.2, −2	.109
	1.3,0	.783		2.4, −2	.061
	1.0,0	.680		1.8, −2	.029
	7.5, −1	.561			
	5.6, −1	.448	.80	4.2, −1	.985
	4.2, −1	.351		3.2, −1	.961
	3.2, −1	.272		2.4, −1	.917
	2.4, −1	.200		1.8, −1	.855
	1.8, −1	.138		1.3, −1	.767
	1.3, −1	.081		1.0, −1	.689
				7.5, −2	.604
.35	2.4,0	.982		5.6, −2	.519
	1.8,0	.948		4.2, −2	.438
	1.3,0	.872		3.2, −2	.363
	1.0,0	.780		2.4, −2	.285
	7.5, −1	.658		1.8, −2	.210
	5.6, −1	.526		1.3, −2	.136
	4.2, −1	.402		1.0, −2	.086
	3.2, −1	.300		7.5, −3	.046
		$\theta_0=180°;\ \frac{\theta}{\theta_0}=0.40$ [Pl. 108]			
0.05	7.5,1	0.984	0.05	7.5,0	0.806
	5.6,1	.967		5.6,0	.776
	4.2,1	.946		4.2,0	.743
	3.2,1	.923		3.2,0	.707
	2.4,1	.899			
	1.8,1	.877	.10	2.4,1	.985
	1.3,1	.853		1.8,1	.964
	1.0,1	.832		1.3,1	.926

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.40$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.10	1.0,1	0.885	0.40	1.0,0	0.857
	7.5,0	.837		7.5,−1	.743
	5.6,0	.790		5.6,−1	.603
	4.2,0	.747		4.2,−1	.459
	3.2,0	.708		3.2,−1	.331
	2.4,0	.664		2.4,−1	.219
	1.8,0	.616		1.8,−1	.133
	1.3,0	.555		1.3,−1	.067
				1.0,−1	.035
.15	1.3,1	.990	.45	1.3,0	.967
	1.0,1	.973		1.0,0	.921
	7.5,0	.938		7.5,−1	.834
	5.6,0	.884		5.6,−1	.709
	4.2,0	.818		4.2,−1	.564
	3.2,0	.752		3.2,−1	.423
	2.4,0	.684		2.4,−1	.287
	1.8,0	.623		1.8,−1	.176
	1.3,0	.556		1.3,−1	.087
	1.0,0	.501		1.0,−1	.043
	7.5,−1	.437			
			.50	1.3,0	.987
.20	7.5,0	.988		1.0,0	.960
	5.6,0	.964		7.5,−1	.901
	4.2,0	.919		5.6,−1	.802
	3.2,0	.855		4.2,−1	.671
	2.4,0	.771		3.2,−1	.531
	1.8,0	.680		2.4,−1	.382
	1.3,0	.582		1.8,−1	.250
	1.0,0	.511		1.3,−1	.134
	7.5,−1	.440		1.0,−1	.070
	5.6,−1	.369		7.5,−2	.028
	4.2,−1	.299			
			.60	7.5,−1	.973
.25	4.2,0	.976		5.6,−1	.925
	3.2,0	.939		4.2,−1	.843
	2.4,0	.874		3.2,−1	.736
	1.8,0	.783		2.4,−1	.601
	1.3,0	.662		1.8,−1	.460
	1.0,0	.564		1.3,−1	.312
	7.5,−1	.465		1.0,−1	.211
	5.6,−1	.378		7.5,−2	.125
	4.2,−1	.302		5.6,−2	.065
	3.2,−1	.235		4.2,−2	.029
	2.4,−1	.170			
			.70	5.6,−1	.979
.30	3.2,0	.981		4.2,−1	.942
	2.4,0	.946		3.2,−1	.881
	1.8,0	.880		2.4,−1	.789
	1.3,0	.769		1.8,−1	.678
	1.0,0	.660		1.3,−1	.545
	7.5,−1	.536		1.0,−1	.441
	5.6,−1	.418		7.5,−2	.338
	4.2,−1	.320		5.6,−2	.246
	3.2,−1	.241		4.2,−2	.168
	2.4,−1	.171		3.2,−2	.109
	1.8,−1	.113		2.4,−2	.061
	1.3,−1	.062		1.8,−2	.029
.35	2.4,0	.981	.80	4.2,−1	.984
	1.8,0	.944		3.2,−1	.958
	1.3,0	.863		2.4,−1	.912
	1.0,0	.766		1.8,−1	.846
	7.5,−1	.637		1.3,−1	.757
	5.6,−1	.499		1.0,−1	.680
	4.2,−1	.372		7.5,−2	.598
	3.2,−1	.269		5.6,−2	.516
	2.4,−1	.182		4.2,−2	.437
	1.8,−1	.116		3.2,−2	.363
	1.3,−1	.063		2.4,−2	.285
	1.0,−1	.034		1.8,−2	.210
				1.3,−2	.136
.40	1.8,0	.978		1.0,−2	.086
	1.3,0	.929		7.5,−3	.046

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.45$

[Pl. 109]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	7.5,1	0.983	0.10	5.6,0	0.782
	5.6,1	.966		4.2,0	.738
	4.2,1	.944		3.2,0	.697
	3.2,1	.920		2.4,0	.652
	2.4,1	.895		1.8,0	.603
	1.8,1	.872		1.3,0	.540
	1.3,1	.847			
	1.0,1	.825	.15	1.3,1	.990
	7.5,0	.799		1.0,1	.972
	5.6,0	.768		7.5,0	.936
	4.2,0	.733		5.6,0	.880
	3.2,0	.696		4.2,0	.812
				3.2,0	.743
.10	2.4,1	.985		2.4,0	.673
	1.8,1	.963		1.8,0	.609
	1.3,1	.923		1.3,0	.541
	1.0,1	.881		1.0,0	.485
	7.5,0	831		7.5,−1	.420

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.45$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.20	7.5,0	0.988	0.45	1.3,0	0.966
	5.6,0	.963		1.0,0	.918
	4.2,0	.916		7.5,−1	.827
	3.2,0	.850		5.6,−1	.699
	2.4,0	.762		4.2,−1	.550
	1.8,0	.668		3.2,−1	.408
	1.3,0	.568		2.4,−1	.272
	1.0,0	.495		1.8,−1	.163
	7.5,−1	.422		1.3,−1	.078
	5.6,−1	.351		1.0,−1	.037
	4.2,−1	.281			
			.50	1.3,0	.986
.25	4.2,0	.975		1.0,0	.959
	3.2,0	.937		7.5,−1	.897
	2.4,0	.869		5.6,−1	.794
	1.8,0	.775		4.2,−1	.660
	1.3,0	.650		3.2,−1	.517
	1.0,0	.549		2.4,−1	.368
	7.5,−1	.448		1.8,−1	.237
	5.6,−1	.360		1.3,−1	.124
	4.2,−1	.283		1.0,−1	.063
	3.2,−1	.217		7.5,−2	.025
	2.4,−1	.154	.60	7.5,−1	.971
				5.6,−1	.922
.30	3.2,0	.980		4.2,−1	.838
	2.4,0	.943		3.2,−1	.727
	1.8,0	.875		2.4,−1	.590
	1.3,0	.760		1.8,−1	.449
	1.0,0	.648		1.3,−1	.303
	7.5,−1	.520		1.0,−1	.205
	5.6,−1	.401		7.5,−2	.122
	4.2,−1	.301		5.6,−2	.063
	3.2,−1	.224		4.2,−2	.028
	2.4,−1	.155	.70	5.6,−1	.978
	1.8,−1	.100		4.2,−1	.939
	1.3,−1	.053		3.2,−1	.876
				2.4,−1	.782
.35	2.4,0	.980		1.8,−1	.669
	1.8,0	.942		1.3,−1	.537
	1.3,0	.858		1.0,−1	.435
	1.0,0	.758		7.5,−2	.334
	7.5,−1	.625		5.6,−2	.244
	5.6,−1	.483		4.2,−2	.168
	4.2,−1	.354		3.2,−2	.108
	3.2,−1	.252		2.4,−2	.061
	2.4,−1	.167		1.8,−2	.029
	1.8,−1	.103			
	1.3,−1	.053	.80	4.2,−1	.983
	1.0,−1	.027		3.2,−1	.957
				2.4,−1	.909
.40	1.8,0	.977		1.8,−1	.842
	1.3,0	.926		1.3,−1	.751
	1.0,0	.851		1.0,−1	.676
	7.5,−1	.734		7.5,−2	.595
	5.6,−1	.590		5.6,−2	.515
	4.2,−1	.443		4.2,−2	.437
	3.2,−1	.315		3.2,−2	.363
	2.4,−1	.203		2.4,−2	.285
	1.8,−1	.120		1.8,−2	.210
	1.3,−1	.058		1.3,−2	.136
	1.0,−1	.028		1.0,−2	.086
				7.5,−3	.046

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.50$

[Pl. 110]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	7.5,1	0.983	0.15	4.2,0	0.809
	5.6,1	.966		3.2,0	.739
	4.2,1	.943		2.4,0	.669
	3.2,1	.919		1.8,0	.605
	2.4,1	.894		1.3,0	.536
	1.8,1	.871		1.0,0	.480
	1.3,1	.845		7.5,−1	.414
	1.0,1	.823			
	7.5,0	.796	.20	7.5,0	.988
	5.6,0	.765		5.6,0	.963
	4.2,0	.730		4.2,0	.915
	3.2,0	.693		3.2,0	.848
				2.4,0	.759
.10	2.4,1	.984		1.8,0	.664
	1.8,1	.962		1.3,0	.563
	1.3,1	.922		1.0,0	.490
	1.0,1	.880		7.5,−1	.417
	7.5,0	.829		5.6,−1	.345
	5.6,0	.780		4.2,−1	.275
	4.2,0	.735			
	3.2,0	.694	.25	4.2,0	.975
	2.4,0	.648		3.2,0	.936
	1.8,0	.598		2.4,0	.868
	1.3,0	.535		1.8,0	.772
				1.3,0	.646
.15	1.3,1	.989		1.0,0	.544
	1.0,1	.971		7.5,−1	.443
	7.5,0	.935		5.6,−1	.354
	5.6,0	.879		4.2,−1	.277

$\theta_0=180°$; $\frac{\theta}{\theta_0}=0.50$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.25	3.2, −1	0.212	0.50	1.3, 0	0.986
	2.4, −1	.149		1.0, 0	.958
				7.5, −1	.896
.30	3.2, 0	.980		5.6, −1	.792
	2.4, 0	.943		4.2, −1	.656
	1.8, 0	.874		3.2, −1	.512
	1.3, 0	.757		2.4, −1	.363
	1.0, 0	.644		1.8, −1	.233
	7.5, −1	.515		1.3, −1	.121
	5.6, −1	.395		1.0, −1	.062
	4.2, −1	.296		7.5, −2	.024
	3.2, −1	.218	.60	7.5, −1	.971
	2.4, −1	.150		5.6, −1	.921
	1.8, −1	.096		4.2, −1	.836
	1.3, −1	.050		3.2, −1	.724
				2.4, −1	.586
.35	2.4, 0	.980		1.8, −1	.445
	1.8, 0	.941		1.3, −1	.300
	1.3, 0	.856		1.0, −1	.203
	1.0, 0	.755		7.5, −2	.121
	7.5, −1	.621		5.6, −2	.063
	5.6, −1	.478		4.2, −2	.028
	4.2, −1	.349	.70	5.6, −1	.978
	3.2, −1	.246		4.2, −1	.939
	2.4, −1	.162		3.2, −1	.875
	1.8, −1	.099		2.4, −1	.780
	1.3, −1	.050		1.8, −1	.667
	1.0, −1	.025		1.3, −1	.534
				1.0, −1	.434
.40	1.8, 0	.977		7.5, −2	.334
	1.3, 0	.925		5.6, −2	.244
	1.0, 0	.849		4.2, −2	.168
	7.5, −1	.731		3.2, −2	.108
	5.6, −1	.585		2.4, −2	.061
	4.2, −1	.437		1.8, −2	.029
	3.2, −1	.309			
	2.4, −1	.198	.80	4.2, −1	.983
	1.8, −1	.116		3.2, −1	.956
	1.3, −1	.055		2.4, −1	.908
	1.0, −1	.027		1.8, −1	.840
				1.3, −1	.749
.45	1.3, 0	.966		1.0, −1	.674
	1.0, 0	.917		7.5, −2	.594
	7.5, −1	.825		5.6, −2	.514
	5.6, −1	.696		4.2, −2	.437
	4.2, −1	.546		3.2, −2	.363
	3.2, −1	.403		2.4, −2	.285
	2.4, −1	.267		1.8, −2	.210
	1.8, −1	.159		1.3, −2	.136
	1.3, −1	.075		1.0, −2	.086
	1.0, −1	.035		7.5, −3	.046

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.05$

[Pl. 111]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.0, 2	0.990	0.20	2.4, 0	0.898
	7.5, 1	.981		1.8, 0	.867
	5.6, 1	.969		1.3, 0	.834
	4.2, 1	.956		1.0, 0	.810
	3.2, 1	.945		7.5, −1	.784
	2.4, 1	.934		5.6, −1	.756
	1.8, 1	.926		4.2, −1	.725
	1.3, 1	.917			
	1.0, 1	.910	.25	4.2, 0	.981
	7.5, 0	.902		3.2, 0	.963
	5.6, 0	.893		2.4, 0	.937
	4.2, 0	.883		1.8, 0	.905
				1.3, 0	.864
.10	2.4, 1	.984		1.0, 0	.830
	1.8, 1	.970		7.5, −1	.794
	1.3, 1	.951		5.6, −1	.760
	1.0, 1	.933		4.2, −1	.726
	7.5, 0	.915		3.2, −1	.691
	5.6, 0	.898		2.4, −1	.650
	4.2, 0	.884			
	3.2, 0	.872	.30	3.2, 0	.985
	2.4, 0	.859		2.4, 0	.967
	1.8, 0	.844		1.8, 0	.942
				1.3, 0	.903
.15	1.3, 1	.988		1.0, 0	.865
	1.0, 1	.977		7.5, −1	.822
	7.5, 0	.959		5.6, −1	.777
	5.6, 0	.936		4.2, −1	.734
	4.2, 0	.911		3.2, −1	.694
	3.2, 0	.888		2.4, −1	.651
	2.4, 0	.866		1.8, −1	.603
	1.8, 0	.846			
	1.3, 0	.824	.35	2.4, 0	.985
	1.0, 0	.806		1.8, 0	.968
	7.5, −1	.783		1.3, 0	.937
				1.0, 0	.904
.20	7.5, 0	.988		7.5, −1	.860
	5.6, 0	.974		5.6, −1	.810
	4.2, 0	.953		4.2, −1	.758
	3.2, 0	.928		3.2, −1	.708

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.05$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.35	2.4, −1	0.657	0.60	7.5, −1	0.984
	1.8, −1	.605		5.6, −1	.966
	1.3, −1	.543		4.2, −1	.939
	1.0, −1	.489		3.2, −1	.902
				2.4, −1	.849
.40	1.8, 0	.984		1.8, −1	.782
	1.3, 0	.963		1.3, −1	.689
	1.0, 0	.937		1.0, −1	.603
	7.5, −1	.898		7.5, −2	.504
	5.6, −1	.849		5.6, −2	.403
	4.2, −1	.794		4.2, −2	.310
	3.2, −1	.737		3.2, −2	.232
	2.4, −1	.676		2.4, −2	.161
	1.8, −1	.615		1.8, −2	.104
	1.3, −1	.546		1.3, −2	.055
	1.0, −1	.490			
	7.5, −2	.425	.70	5.6, −1	.988
				4.2, −1	.974
.45	1.3, 0	.980		3.2, −1	.954
	1.0, 0	.961		2.4, −1	.922
	7.5, −1	.931		1.8, −1	.877
	5.6, −1	.888		1.3, −1	.808
	4.2, −1	.836		1.0, −1	.737
	3.2, −1	.778		7.5, −2	.644
	2.4, −1	.710		5.6, −2	.536
	1.8, −1	.639		4.2, −2	.422
	1.3, −1	.559		3.2, −2	.316
	1.0, −1	.496		2.4, −2	.214
	7.5, −2	.427		1.8, −2	.131
	5.6, −2	.356		1.3, −2	.065
				1.0, −2	.032
.50	1.3, 0	.990			
	1.0, 0	.977	.80	3.2, −1	.982
	7.5, −1	.955		2.4, −1	.967
	5.6, −1	.922		1.8, −1	.943
	4.2, −1	.876		1.3, −1	.904
	3.2, −1	.822		1.0, −1	.861
	2.4, −1	.755		7.5, −2	.799
	1.8, −1	.679		5.6, −2	.720
	1.3, −1	.587		4.2, −2	.627
	1.0, −1	.514		3.2, −2	.527
	7.5, −2	.435		2.4, −2	.413
	5.6, −2	.359		1.8, −2	.301
	4.2, −2	.287		1.3, −2	.187
	3.2, −2	.222		1.0, −2	.114
	2.4, −2	.158		7.5, −3	.058

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.10$

[Pl. 112]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.0, 2	0.979	0.20	1.3, 0	0.684
	7.5, 1	.962		1.0, 0	.640
	5.6, 1	.939		7.5, −1	.595
	4.2, 1	.914		5.6, −1	.548
	3.2, 1	.891		4.2, −1	.497
	2.4, 1	.871			
	1.8, 1	.854	.25	5.6, 0	.984
	1.3, 1	.838		4.2, 0	.962
	1.0, 1	.825		3.2, 0	.928
	7.5, 0	.809		2.4, 0	.878
	5.6, 0	.792		1.8, 0	.816
	4.2, 0	.772		1.3, 0	.739
	3.2, 0	.752		1.0, 0	.677
				7.5, −1	.614
.10	3.2, 1	.986		5.6, −1	.555
	2.4, 1	.968		4.2, −1	.499
	1.8, 1	.941		3.2, −1	.445
	1.3, 1	.903		2.4, −1	.384
	1.0, 1	.869			
	7.5, 0	.833	.30	4.2, 0	.988
	5.6, 0	.802		3.2, 0	.970
	4.2, 0	.775		2.4, 0	.936
	3.2, 0	.753		1.8, 0	.886
	2.4, 0	.728		1.3, 0	.812
	1.8, 0	.700		1.0, 0	.742
	1.3, 0	.665		7.5, −1	.663
				5.6, −1	.585
.15	1.3, 1	.977		4.2, −1	.513
	1.0, 1	.955		3.2, −1	.450
	7.5, 0	.920		2.4, −1	.385
	5.6, 0	.875		1.8, −1	.320
	4.2, 0	.827			
	3.2, 0	.783	.35	3.2, 0	.989
	2.4, 0	.742		2.4, 0	.971
	1.8, 0	.705		1.8, 0	.937
	1.3, 0	.666		1.3, 0	.878
	1.0, 0	.633		1.0, 0	.815
	7.5, −1	.593		7.5, −1	.733
				5.6, −1	.642
.20	7.5, 0	.976		4.2, −1	.553
	5.6, 0	.949		3.2, −1	.473
	4.2, 0	.908		2.4, −1	.395
	3.2, 0	.860		1.8, −1	.323
	2.4, 0	.802		1.3, −1	.246
	1.8, 0	.744		1.0, −1	.187

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.10$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	2.4, 0	0.988	0.60	1.0, 0	0.988
	1.8, 0	.969		7.5, −1	.969
	1.3, 0	.928		5.6, −1	.934
	1.0, 0	.877		4.2, −1	.882
	7.5, −1	.805		3.2, −1	.814
	5.6, −1	.715		2.4, −1	.721
	4.2, −1	.617		1.8, −1	.609
	3.2, −1	.522		1.3, −1	.468
	2.4, −1	.426		1.0, −1	.353
	1.8, −1	.338		7.5, −2	.236
	1.3, −1	.250		5.6, −2	.138
	1.0, −1	.188		4.2, −2	.070
	7.5, −2	.129		3.2, −2	.031
			.70	5.6, −1	.976
.45	1.8, 0	.986		4.2, −1	.950
	1.3, 0	.960		3.2, −1	.911
	1.0, 0	.924		2.4, −1	.853
	7.5, −1	.866		1.8, −1	.774
	5.6, −1	.787		1.3, −1	.662
	4.2, −1	.692		1.0, −1	.558
	3.2, −1	.592		7.5, −2	.435
	2.4, −1	.482		5.6, −2	.314
	1.8, −1	.376		4.2, −2	.208
	1.3, −1	.269		3.2, −2	.128
	1.0, −1	.196		2.4, −2	.068
	7.5, −2	.131		1.8, −2	.031
	5.6, −2	.079			
	4.2, −2	.043	.80	4.2, −1	.983
				3.2, −1	.965
.50	1.3, 0	.980		2.4, −1	.936
	1.0, 0	.956		1.8, −1	.894
	7.5, −1	.913		1.3, −1	.827
	5.6, −1	.849		1.0, −1	.759
	4.2, −1	.766		7.5, −2	.671
	3.2, −1	.670		5.6, −2	.572
	2.4, −1	.557		4.2, −2	.472
	1.8, −1	.439		3.2, −2	.381
	1.3, −1	.311		2.4, −2	.292
	1.0, −1	.222		1.8, −2	.212
	7.5, −2	.142		1.3, −2	.136
	5.6, −2	.083		1.0, −2	.086
	4.2, −2	.043		7.5, −3	.046

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.15$

[Pl. 113]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3, 2	0.986	0.20	1.8, 0	0.638
	1.0, 2	.970		1.3, 0	.558
	7.5, 1	.944		1.0, 0	.503
	5.6, 1	.910		7.5, −1	.448
	4.2, 1	.874		5.6, −1	.393
	3.2, 1	.842		4.2, −1	.336
	2.4, 1	.812			
	1.8, 1	.789	.25	5.6, 0	.977
	1.3, 1	.766		4.2, 0	.945
	1.0, 1	.747		3.2, 0	.896
	7.5, 0	.726		2.4, 0	.824
	5.6, 0	.701		1.8, 0	.737
	4.2, 0	.675		1.3, 0	.632
	3.2, 0	.647		1.0, 0	.551
				7.5, −1	.471
.10	3.2, 1	.979		5.6, −1	.401
	2.4, 1	.953		4.2, −1	.338
	1.8, 1	.914		3.2, −1	.281
	1.3, 1	.859		2.4, −1	.222
	1.0, 1	.810			
	7.5, 0	.759	.30	4.2, 0	.982
	5.6, 0	.715		3.2, 0	.955
	4.2, 0	.679		2.4, 0	.907
	3.2, 0	.648		1.8, 0	.836
	2.4, 0	.615		1.3, 0	.732
	1.8, 0	.579		1.0, 0	.638
	1.3, 0	.534		7.5, −1	.535
				5.6, −1	.438
.15	1.8, 1	.989		4.2, −1	.355
	1.3, 1	.967		3.2, −1	.287
	1.0, 1	.934		2.4, −1	.223
	7.5, 0	.883		1.8, −1	.165
	5.6, 0	.820		1.3, −1	.106
	4.2, 0	.752			
	3.2, 0	.690	.35	3.2, 0	.984
	2.4, 0	.634		2.4, 0	.957
	1.8, 0	.585		1.8, 0	.909
	1.3, 0	.535		1.3, 0	.825
	1.0, 0	.494		1.0, 0	.737
	7.5, −1	.446		7.5, −1	.628
				5.6, −1	.512
.20	1.0, 1	.987		4.2, −1	.404
	7.5, 0	.965		3.2, −1	.314
	5.6, 0	.925		2.4, −1	.234
	4.2, 0	.866		1.8, −1	.168
	3.2, 0	.797		1.3, −1	.107
	2.4, 0	.717		1.0, −1	.067

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.15$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.40	2.4, 0	0.983	0.60	5.6, −1	0.906
	1.8, 0	.954		4.2, −1	.834
	1.3, 0	.895		3.2, −1	.743
	1.0, 0	.824		2.4, −1	.628
	7.5, −1	.725		1.8, −1	.499
	5.6, −1	.607		1.3, −1	.352
	4.2, −1	.484		1.0, −1	.244
	3.2, −1	.373		7.5, −2	.146
	2.4, −1	.269		5.6, −2	.076
	1.8, −1	.184		4.2, −2	.033
	1.3, −1	.111			
	1.0, −1	.069	.70	7.5, −1	.987
	7.5, −2	.036		5.6, −1	.966
				4.2, −1	.928
.45	1.8, 0	.979		3.2, −1	.875
	1.3, 0	.942		2.4, −1	.798
	1.0, 0	.890		1.8, −1	.702
	7.5, −1	.809		1.3, −1	.576
	5.6, −1	.703		1.0, −1	.470
	4.2, −1	.580		7.5, −2	.358
	3.2, −1	.459		5.6, −2	.256
	2.4, −1	.335		4.2, −2	.172
	1.8, −1	.226		3.2, −2	.110
	1.3, −1	.131		2.4, −2	.061
	1.0, −1	.077		1.8, −2	.029
	7.5, −2	.038			
			.80	4.2, −1	.975
.50	1.3, 0	.970		3.2, −1	.950
	1.0, 0	.936		2.4, −1	.911
	7.5, −1	.875		1.8, −1	.856
	5.6, −1	.787		1.3, −1	.776
	4.2, −1	.677		1.0, −1	.701
	3.2, −1	.557		7.5, −2	.614
	2.4, −1	.425		5.6, −2	.526
	1.8, −1	.298		4.2, −2	.441
	1.3, −1	.177		3.2, −2	.364
	1.0, −1	.103		2.4, −2	.285
	7.5, −2	.050		1.8, −2	.210
				1.3, −2	.136
.60	1.0, 0	.982		1.0, −2	.086
	7.5, −1	.954		7.5, −3	.046

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.20$

[Pl. 114]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3, 2	0.981	0.20	1.0, 0	0.401
	1.0, 2	.961		7.5, −1	.343
	7.5, 1	.928		5.6, −1	.288
	5.6, 1	.884		4.2, −1	.234
	4.2, 1	.838			
	3.2, 1	.797	.25	5.6, 0	.971
	2.4, 1	.760		4.2, 0	.929
	1.8, 1	.731		3.2, 0	.867
	1.3, 1	.702		2.4, 0	.777
	1.0, 1	.680		1.8, 0	.671
	7.5, 0	.653		1.3, 0	.547
	5.6, 0	.624		1.0, 0	.455
	4.2, 0	.593		7.5, −1	.369
	3.2, 0	.560		5.6, −1	.297
				4.2, −1	.236
.10	4.2, 1	.990		3.2, −1	.185
	3.2, 1	.973		2.4, −1	.135
	2.4, 1	.940			
	1.8, 1	.890	.30	4.2, 0	.977
	1.3, 1	.819		3.2, 0	.943
	1.0, 1	.758		2.4, 0	.881
	7.5, 0	.695		1.8, 0	.792
	5.6, 0	.641		1.3, 0	.667
	4.2, 0	.598		1.0, 0	.557
	3.2, 0	.562		7.5, −1	.441
	2.4, 0	.523		5.6, −1	.337
	1.8, 0	.483		4.2, −1	.254
	1.3, 0	.433		3.2, −1	.191
				2.4, −1	.136
.15	1.8, 1	.986		1.8, −1	.091
	1.3, 1	.957		1.3, −1	.051
	1.0, 1	.915			
	7.5, 0	.851	.35	3.2, 0	.979
	5.6, 0	.770		2.4, 0	.945
	4.2, 0	.687		1.8, 0	.884
	3.2, 0	.612		1.3, 0	.780
	2.4, 0	.545		1.0, 0	.674
	1.8, 0	.490		7.5, −1	.547
	1.3, 0	.434		5.6, −1	.419
	1.0, 0	.390		4.2, −1	.307
	7.5, −1	.340		3.2, −1	.219
				2.4, −1	.148
.20	1.0, 1	.983		1.8, −1	.094
	7.5, 0	.955		1.3, −1	.051
	5.6, 0	.904		1.0, −1	.028
	4.2, 0	.830			
	3.2, 0	.744	.40	2.4, 0	.978
	2.4, 0	.646		1.8, 0	.941
	1.8, 0	.552		1.3, 0	.867
	1.3, 0	.461		1.0, 0	.780

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.20$—Continued			
0.40	7.5, −1	0.661	0.60	2.4, −1	0.567
	5.6, −1	.526		1.8, −1	.438
	4.2, −1	.394		1.3, −1	.301
	3.2, −1	.282		1.0, −1	.205
	2.4, −1	.184		7.5, −2	.123
	1.8, −1	.111		5.6, −2	.064
	1.3, −1	.056		4.2, −2	.029
	1.0, −1	.029	.70	7.5, −1	.983
.45	1.8, 0	.973		5.6, −1	.956
	1.3, 0	.926		4.2, −1	.910
	1.0, 0	.861		3.2, −1	.846
	7.5, −1	.762		2.4, −1	.759
	5.6, −1	.637		1.8, −1	.657
	4.2, −1	.502		1.3, −1	.534
	3.2, −1	.374		1.0, −1	.436
	2.4, −1	.252		7.5, −2	.336
	1.8, −1	.154		5.6, −2	.245
	1.3, −1	.076		4.2, −2	.168
	1.0, −1	.037		3.2, −2	.108
				2.4, −2	.061
.50	1.8, 0	.989		1.8, −2	.029
	1.3, 0	.962			
	1.0, 0	.918	.80	5.6, −1	.987
	7.5, −1	.843		4.2, −1	.968
	5.6, −1	.737		3.2, −1	.938
	4.2, −1	.611		2.4, −1	.891
	3.2, −1	.482		1.8, −1	.829
	2.4, −1	.348		1.3, −1	.747
	1.8, −1	.228		1.0, −1	.675
	1.3, −1	.122		7.5, −2	.595
	1.0, −1	.064		5.6, −2	.516
	7.5, −2	.026		4.2, −2	.437
				3.2, −2	.363
.60	1.0, 0	.977		2.4, −2	.285
	7.5, −1	.942		1.8, −2	.210
	5.6, −1	.881		1.3, −2	.136
	4.2, −1	.795		1.0, −2	.086
	3.2, −1	.692		7.5, −3	.046

$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.25$

[Pl. 115]

0.05	1.3, 2	0.978	0.20	7.5, −1	0.272
	1.0, 2	.953		5.6, −1	.220
	7.5, 1	.913		4.2, −1	.173
	5.6, 1	.862			
	4.2, 1	.807	.25	7.5, 0	.989
	3.2, 1	.758		5.6, 0	.965
	2.4, 1	.715		4.2, 0	.916
	1.8, 1	.681		3.2, 0	.842
	1.3, 1	.649		2.4, 0	.738
	1.0, 1	.623		1.8, 0	.619
	7.5, 0	.594		1.3, 0	.483
	5.6, 0	.561		1.0, 0	.386
	4.2, 0	.527		7.5, −1	.299
	3.2, 0	.492		5.6, −1	.229
				4.2, −1	.175
.10	4.2, 1	.988		3.2, −1	.131
	3.2, 1	.967		2.4, −1	.090
	2.4, 1	.928			
	1.8, 1	.869	.30	4.2, 0	.972
	1.3, 1	.785		3.2, 0	.931
	1.0, 1	.714		2.4, 0	.859
	7.5, 0	.641		1.8, 0	.756
	5.6, 0	.580		1.3, 0	.615
	4.2, 0	.532		1.0, 0	.496
	3.2, 0	.493		7.5, −1	.375
	2.4, 0	.453		5.6, −1	.272
	1.8, 0	.411		4.2, −1	.193
	1.3, 0	.360		3.2, −1	.137
				2.4, −1	.092
.15	1.8, 1	.983		1.8, −1	.057
	1.3, 1	.948		1.3, −1	.029
	1.0, 1	.899			
	7.5, 0	.823	.35	3.2, 0	.975
	5.6, 0	.729		2.4, 0	.934
	4.2, 0	.633		1.8, 0	.862
	3.2, 0	.550		1.3, 0	.743
	2.4, 0	.477		1.0, 0	.625
	1.8, 0	.418		7.5, −1	.489
	1.3, 0	.361		5.6, −1	.357
	1.0, 0	.318		4.2, −1	.247
	7.5, −1	.269		3.2, −1	.165
				2.4, −1	.103
.20	1.0, 1	.980		1.8, −1	.060
	7.5, 0	.946		1.3, −1	.030
	5.6, 0	.885			
	4.2, 0	.798	.40	2.4, 0	.973
	3.2, 0	.699		1.8, 0	.930
	2.4, 0	.589		1.3, 0	.843
	1.8, 0	.486		1.0, 0	.744
	1.3, 0	.390		7.5, −1	.613
	1.0, 0	.328		5.6, −1	.471

r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2 s}$	$1-\frac{s}{s_0}$
		$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.25$—Continued			
0.40	4.2, −1	0.337	0.60	1.8, −1	0.407
	3.2, −1	.229		1.3, −1	.279
	2.4, −1	.139		1.0, −1	.192
	1.8, −1	.077		7.5, −2	.117
	1.3, −1	.034		5.6, −2	.062
				4.2, −2	.028
.45	1.8, 0	.968	.70	7.5, −1	.980
	1.3, 0	.912		5.6, −1	.948
	1.0, 0	.837		4.2, −1	.895
	7.5, −1	.726		3.2, −1	.825
	5.6, −1	.590		2.4, −1	.733
	4.2, −1	.450		1.8, −1	.632
	3.2, −1	.324		1.3, −1	.514
	2.4, −1	.209		1.0, −1	.423
	1.8, −1	.120		7.5, −2	.329
	1.3, −1	.054		5.6, −2	.243
	1.0, −1	.024		4.2, −2	.168
				3.2, −2	.108
.50	1.8, 0	.987		2.4, −2	.061
	1.3, 0	.954		1.8, −2	.029
	1.0, 0	.903			
	7.5, −1	.817	.80	5.6, −1	.985
	5.6, −1	.700		4.2, −1	.963
	4.2, −1	.566		3.2, −1	.928
	3.2, −1	.435		2.4, −1	.876
	2.4, −1	.305		1.8, −1	.812
	1.8, −1	.195		1.3, −1	.731
	1.3, −1	.101		1.0, −1	.664
	1.0, −1	.051		7.5, −2	.590
	7.5, −2	.020		5.6, −2	.513
				4.2, −2	.437
.60	1.0, 0	.972		3.2, −2	.363
	7.5, −1	.931		2.4, −2	.285
	5.6, −1	.862		1.8, −2	.210
	4.2, −1	.766		1.3, −2	.136
	3.2, −1	.657		1.0, −2	.086
	2.4, −1	.531		7.5, −3	.046

$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.30$

[Pl. 116]

0.05	1.3, 2	0.974	0.25	7.5, 0	0.988
	1.0, 2	.947		5.6, 0	.960
	7.5, 1	.901		4.2, 0	.904
	5.6, 1	.843		3.2, 0	.822
	4.2, 1	.781		2.4, 0	.708
	3.2, 1	.726		1.8, 0	.579
	2.4, 1	.678		1.3, 0	.437
	1.8, 1	.641		1.0, 0	.338
	1.3, 1	.606		7.5, −1	.252
	1.0, 1	.578		5.6, −1	.187
	7.5, 0	.547		4.2, −1	.138
	5.6, 0	.512		3.2, −1	.100
	4.2, 0	.476		2.4, −1	.067
	3.2, 0	.440			
			.30	4.2, 0	.968
.10	4.2, 1	.986		3.2, 0	.922
	3.2, 1	.963		2.4, 0	.841
	2.4, 1	.917		1.8, 0	.728
	1.8, 1	.851		1.3, 0	.577
	1.3, 1	.757		1.0, 0	.453
	1.0, 1	.678		7.5, −1	.330
	7.5, 0	.598		5.6, −1	.230
	5.6, 0	.533		4.2, −1	.156
	4.2, 0	.482		3.2, −1	.106
	3.2, 0	.442		2.4, −1	.068
	2.4, 0	.400		1.8, −1	.041
	1.8, 0	.358			
	1.3, 0	.309	.35	3.2, 0	.972
				2.4, 0	.925
.15	1.8, 1	.981		1.8, 0	.845
	1.3, 1	.941		1.3, 0	.714
	1.0, 1	.885		1.0, 0	.589
	7.5, 0	.800		7.5, −1	.448
	5.6, 0	.696		5.6, −1	.317
	4.2, 0	.591		4.2, −1	.210
	3.2, 0	.502		3.2, −1	.135
	2.4, 0	.425		2.4, −1	.079
	1.8, 0	.366		1.8, −1	.044
	1.3, 0	.310			
	1.0, 0	.268	.40	2.4, 0	.969
	7.5, −1	.223		1.8, 0	.921
.20	1.0, 1	.977		1.3, 0	.824
	7.5, 0	.939		1.0, 0	.716
	5.6, 0	.870		7.5, −1	.578
	4.2, 0	.773		5.6, −1	.433
	3.2, 0	.664		4.2, −1	.302
	2.4, 0	.545		3.2, −1	.199
	1.8, 0	.437		2.4, −1	.116
	1.3, 0	.339		1.8, −1	.061
	1.0, 0	.279		1.3, −1	.025
	7.5, −1	.225			
	5.6, −1	.178	.45	2.4, 0	.989
	4.2, −1	.136		1.8, 0	.964

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.30$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.45	1.3,0	0.901	0.60	5.6,−2	0.061
	1.0,0	.818		4.2,−2	.028
	7.5,−1	.698	.70	7.5,−1	.977
	5.6,−1	.558		5.6,−1	.941
	4.2,−1	.417		4.2,−1	.884
	3.2,−1	.294		3.2,−1	.810
	2.4,−1	.185		2.4,−1	.717
	1.8,−1	.104		1.8,−1	.618
	1.3,−1	.045		1.3,−1	.505
.50	1.8,0	.985		1.0,−1	.418
	1.3,0	.948		7.5,−2	.327
	1.0,0	.891		5.6,−2	.242
	7.5,−1	.797		4.2,−2	.167
	5.6,−1	.673		3.2,−2	.108
	4.2,−1	.536		2.4,−2	.061
	3.2,−1	.407		1.8,−2	.029
	2.4,−1	.283	.80	5.6,−1	.983
	1.8,−1	.178		4.2,−1	.958
	1.3,−1	.091		3.2,−1	.920
	1.0,−1	.046		2.4,−1	.866
				1.8,−1	.802
.60	1.3,0	.989		1.3,−1	.724
	1.0,0	.968		1.0,−1	.659
	7.5,−1	.922		7.5,−2	.587
	5.6,−1	.846		5.6,−2	.513
	4.2,−1	.745		4.2,−2	.436
	3.2,−1	.634		3.2,−2	.363
	2.4,−1	.511		2.4,−2	.285
	1.8,−1	.391		1.8,−2	.210
	1.3,−1	.270		1.3,−2	.136
	1.0,−1	.187		1.0,−2	.086
	7.5,−2	.114		7.5,−3	.046

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.35$

[Pl. 117]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3,2	0.972	0.25	2.4,0	0.685
	1.0,2	.941		1.8,0	.550
	7.5,1	.891		1.3,0	.404
	5.6,1	.827		1.0,0	.306
	4.2,1	.760		7.5,−1	.223
	3.2,1	.701		5.6,−1	.161
	2.4,1	.650		4.2,−1	.116
	1.8,1	.610		3.2,−1	.083
	1.3,1	.573		2.4,−1	.054
	1.0,1	.544	.30	5.6,0	.990
	7.5,0	.511		4.2,0	.965
	5.6,0	.476		3.2,0	.915
	4.2,0	.440		2.4,0	.827
	3.2,0	.403		1.8,0	.707
.10	4.2,1	.985		1.3,0	.550
	3.2,1	.959		1.0,0	.423
	2.4,1	.909		7.5,−1	.301
	1.8,1	.837		5.6,−1	.204
	1.3,1	.735		4.2,−1	.134
	1.0,1	.650		3.2,−1	.089
	7.5,0	.566		2.4,−1	.055
	5.6,0	.498		1.8,−1	.032
	4.2,0	.446	.35	3.2,0	.969
	3.2,0	.404		2.4,0	.918
	2.4,0	.363		1.8,0	.831
	1.8,0	.322		1.3,0	.693
	1.3,0	.274		1.0,0	.564
.15	1.8,1	.979		7.5,−1	.421
	1.3,1	.935		5.6,−1	.291
	1.0,1	.874		4.2,−1	.189
	7.5,0	.782		3.2,−1	.117
	5.6,0	.671		2.4,−1	.067
	4.2,0	.560		1.8,−1	.036
	3.2,0	.467			
	2.4,0	.389	.40	2.4,0	.966
	1.8,0	.329		1.8,0	.913
	1.3,0	.275		1.3,0	.810
	1.0,0	.235		1.0,0	.696
	7.5,−1	.193		7.5,−1	.555
				5.6,−1	.410
.20	1.0,1	.975		4.2,−1	.281
	7.5,0	.933		3.2,−1	.181
	5.6,0	.858		2.4,−1	.103
	4.2,0	.754		1.8,−1	.052
	3.2,0	.638		1.3,−1	.021
	2.4,0	.513			
	1.8,0	.403	.45	2.4,0	.988
	1.3,0	.305		1.8,0	.960
	1.0,0	.246		1.3,0	.892
	7.5,−1	.195		1.0,0	.804
	5.6,−1	.152		7.5,−1	.679
	4.2,−1	.114		5.6,−1	.536
				4.2,−1	.396
.25	7.5,0	.986		3.2,−1	.277
	5.6,0	.956		2.4,−1	.173
	4.2,0	.895		1.8,−1	.095
	3.2,0	.806		1.3,−1	.040

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.35$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.50	1.8,0	0.983	0.70	3.2,−1	0.799
	1.3,0	.943		2.4,−1	.707
	1.0,0	.882		1.8,−1	.610
	7.5,−1	.782		1.3,−1	.501
	5.6,−1	.654		1.0,−1	.416
	4.2,−1	.517		7.5,−2	.326
	3.2,−1	.391		5.6,−2	.242
	2.4,−1	.270		4.2,−2	.167
	1.8,−1	.170		3.2,−2	.108
	1.3,−1	.087		2.4,−2	.061
	1.0,−1	.043		1.8,−2	.029
.60	1.3,0	.988	.80	5.6,−1	.981
	1.0,0	.965		4.2,−1	.954
	7.5,−1	.916		3.2,−1	.915
	5.6,−1	.835		2.4,−1	.859
	4.2,−1	.731		1.8,−1	.796
	3.2,−1	.619		1.3,−1	.720
	2.4,−1	.499		1.0,−1	.657
	1.8,−1	.383		7.5,−2	.587
	1.3,−1	.266		5.6,−2	.512
	1.0,−1	.185		4.2,−2	.436
	7.5,−2	.114		3.2,−2	.363
	5.6,−2	.061		2.4,−2	.285
	4.2,−2	.028		1.8,−2	.210
				1.3,−2	.136
.70	7.5,−1	.975		1.0,−2	.086
	5.6,−1	.936		7.5,−3	.046
	4.2,−1	.875			

$\theta_0=360°$; $\frac{\theta}{\theta_0}=0.40$

[Pl. 118]

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.05	1.3,2	0.970	0.25	1.0,0	0.286
	1.0,2	.937		7.5,−1	.204
	7.5,1	.884		5.6,−1	.145
	5.6,1	.817		4.2,−1	.103
	4.2,1	.745		3.2,−1	.073
	3.2,1	.684		2.4,−1	.047
	2.4,1	.630			
	1.8,1	.588	.30	5.6,0	.989
	1.3,1	.550		4.2,0	.963
	1.0,1	.520		3.2,0	.909
	7.5,0	.487		2.4,0	.817
	5.6,0	.451		1.8,0	.693
	4.2,0	.415		1.3,0	.532
	3.2,0	.378		1.0,0	.405
				7.5,−1	.283
.10	4.2,1	.984		5.6,−1	.188
	3.2,1	.956		4.2,−1	.122
	2.4,1	.904		3.2,−1	.079
	1.8,1	.827		2.4,−1	.048
	1.3,1	.720			
	1.0,1	.631	.35	3.2,0	.967
	7.5,0	.544		2.4,0	.913
	5.6,0	.473		1.8,0	.822
	4.2,0	.421		1.3,0	.679
	3.2,0	.380		1.0,0	.548
	2.4,0	.339		7.5,−1	.404
	1.8,0	.298		5.6,−1	.276
	1.3,0	.252		4.2,−1	.176
				3.2,−1	.108
.15	1.8,1	.977		2.4,−1	.060
	1.3,1	.931		1.8,−1	.031
	1.0,1	.866			
	7.5,0	.769	.40	3.2,0	.990
	5.6,0	.653		2.4,0	.964
	4.2,0	.538		1.8,0	.908
	3.2,0	.444		1.3,0	.800
	2.4,0	.365		1.0,0	.683
	1.8,0	.306		7.5,−1	.540
	1.3,0	.253		5.6,−1	.395
	1.0,0	.214		4.2,−1	.268
	7.5,−1	.174		3.2,−1	.171
				2.4,−1	.096
.20	1.0,1	.973		1.8,−1	.048
	7.5,0	.928			
	5.6,0	.849	.45	2.4,0	.987
	4.2,0	.740		1.8,0	.957
	3.2,0	.620		1.3,0	.885
	2.4,0	.492		1.0,0	.794
	1.8,0	.380		7.5,−1	.666
	1.3,0	.283		5.6,−1	.522
	1.0,0	.225		4.2,−1	.384
	7.5,−1	.177		3.2,−1	.267
	5.6,−1	.136		2.4,−1	.166
	4.2,−1	.101		1.8,−1	.091
				1.3,−1	.038
.25	7.5,0	.985			
	5.6,0	.953	.50	1.8,0	.982
	4.2,0	.889		1.3,0	.940
	3.2,0	.795		1.0,0	.875
	2.4,0	.669		7.5,−1	.772
	1.8,0	.531		5.6,−1	.642
	1.3,0	.384		4.2,−1	.506

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.40$—Continued			
0.50	3.2, −1	0.381	0.70	1.3, −1	0.499
	2.4, −1	.263		1.0, −1	.414
	1.8, −1	.166		7.5, −2	.326
	1.3, −1	.085		5.6, −2	.242
	1.0, −1	.042		4.2, −2	.167
				3.2, −2	.108
.60	1.3,0	.987		2.4, −2	.061
	1.0,0	.963		1.8, −2	.029
	7.5, −1	.911			
	5.6, −1	.827	.80	5.6, −1	.980
	4.2, −1	.722		4.2, −1	.952
	3.2, −1	.611		3.2, −1	.911
	2.4, −1	.492		2.4, −1	.855
	1.8, −1	.379		1.8, −1	.793
	1.3, −1	.263		1.3, −1	.718
	1.0, −1	.184		1.0, −1	.656
	7.5, −2	.113		7.5, −2	.586
	5.6, −2	.061		5.6, −2	.512
	4.2, −2	.028		4.2, −2	.436
				3.2, −2	.363
.70	7.5, −1	.973		2.4, −2	.285
	5.6, −1	.933		1.8, −2	.210
	4.2, −1	.870		1.3, −2	.136
	3.2, −1	.793		1.0, −2	.086
	2.4, −1	.701		7.5, −3	.046
	1.8, −1	.606			

$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.45$

[Pl. 119]

0.05	1.3,2	0.969	0.25	4.2, −1	0.097
	1.0,2	.935		3.2, −1	.068
	7.5,1	.880		2.4, −1	.044
	5.6,1	.810			
	4.2,1	.737	.30	5.6,0	.989
	3.2,1	.673		4.2,0	.961
	2.4,1	.618		3.2,0	.906
	1.8,1	.575		2.4,0	.811
	1.3,1	.536		1.8,0	.684
	1.0,1	.507		1.3,0	.521
	7.5,0	.473		1.0,0	.394
	5.6,0	.437		7.5, −1	.274
	4.2,0	.400		5.6, −1	.180
	3.2,0	.364		4.2, −1	.115
				3.2, −1	.074
.10	4.2,1	.983		2.4, −1	.045
	3.2,1	.954			
	2.4,1	.900	.35	4.2,0	.990
	1.8,1	.820		3.2,0	.966
	1.3,1	.711		2.4,0	.910
	1.0,1	.619		1.8,0	.816
	7.5,0	.530		1.3,0	.671
	5.6,0	.459		1.0,0	.538
	4.2,0	.406		7.5, −1	.395
	3.2,0	.365		5.6, −1	.268
	2.4,0	.325		4.2, −1	.169
	1.8,0	.285		3.2, −1	.102
	1.3,0	.239		2.4, −1	.056
				1.8, −1	.029
.15	1.8,1	.976			
	1.3,1	.928	.40	3.2,0	.989
	1.0,1	.862		2.4,0	.963
	7.5,0	.761		1.8,0	.905
	5.6,0	.642		1.3,0	.794
	4.2,0	.526		1.0,0	.675
	3.2,0	.430		7.5, −1	.531
	2.4,0	.351		5.6, −1	.387
	1.8,0	.293		4.2, −1	.262
	1.3,0	.241		3.2, −1	.166
	1.0,0	.203		2.4, −1	.093
	7.5, −1	.164		1.8, −1	.045
.20	1.0,1	.972	.45	2.4,0	.987
	7.5,0	.926		1.8,0	.956
	5.6,0	.844		1.3,0	.882
	4.2,0	.732		1.0,0	.788
	3.2,0	.609		7.5, −1	.659
	2.4,0	.480		5.6, −1	.515
	1.8,0	.367		4.2, −1	.378
	1.3,0	.270		3.2, −1	.262
	1.0,0	.214		2.4, −1	.162
	7.5, −1	.167		1.8, −1	.089
	5.6, −1	.128		1.3, −1	.037
	4.2, −1	.095			
			.50	1.8,0	.982
.25	7.5,0	.985		1.3,0	.938
	5.6,0	.951		1.0,0	.871
	4.2,0	.885		7.5, −1	.766
	3.2,0	.789		5.6, −1	.636
	2.4,0	.660		4.2, −1	.500
	1.8,0	.520		3.2, −1	.376
	1.3,0	.372		2.4, −1	.260
	1.0,0	.275		1.8, −1	.163
	7.5, −1	.194		1.3, −1	.083
	5.6, −1	.137		1.0, −1	.042

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
		$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.45$—Continued			
0.60	1.3,0	0.987	0.70	5.6, −2	0.242
	1.0,0	.962		4.2, −2	.167
	7.5, −1	.908		3.2, −2	.108
	5.6, −1	.823		2.4, −2	.061
	4.2, −1	.717		1.8, −2	.029
	3.2, −1	.606			
	2.4, −1	.488	.80	5.6, −1	.979
	1.8, −1	.376		4.2, −1	.950
	1.3, −1	.262		3.2, −1	.909
	1.0, −1	.183		2.4, −1	.853
	7.5, −2	.113		1.8, −1	.791
	5.6, −2	.061		1.3, −1	.717
	4.2, −2	.028		1.0, −1	.655
				7.5, −2	.586
.70	7.5, −1	.972		5.6, −2	.512
	5.6, −1	.931		4.2, −2	.436
	4.2, −1	.867		3.2, −2	.363
	3.2, −1	.789		2.4, −2	.285
	2.4, −1	.698		1.8, −2	.210
	1.8, −1	.604		1.3, −2	.136
	1.3, −1	.497		1.0, −2	.086
	1.0, −1	.414		7.5, −3	.046
	7.5, −2	.326			

$\theta_0=360°;\ \frac{\theta}{\theta_0}=0.50$

[Pl. 120]

0.05	1.3,2	0.969	0.25	3.2, −1	0.066
	1.0,2	.934		2.4, −1	.042
	7.5,1	.878			
	5.6,1	.808	.30	5.6,0	.989
	4.2,1	.734		4.2,0	.961
	3.2,1	.669		3.2,0	.905
	2.4,1	.614		2.4,0	.809
	1.8,1	.571		1.8,0	.681
	1.3,1	.532		1.3,0	.518
	1.0,1	.502		1.0,0	.391
	7.5,0	.468		7.5, −1	.271
	5.6,0	.432		5.6, −1	.177
	4.2,0	.395		4.2, −1	.113
	3.2,0	.359		3.2, −1	.072
				2.4, −1	.044
.10	4.2,1	.983	.35	4.2,0	.990
	3.2,1	.954		3.2,0	.965
	2.4,1	.899		2.4,0	.909
	1.8,1	.818		1.8,0	.815
	1.3,1	.707		1.3,0	.668
	1.0,1	.616		1.0,0	.535
	7.5,0	.526		7.5, −1	.392
	5.6,0	.455		5.6, −1	.265
	4.2,0	.402		4.2, −1	.167
	3.2,0	.361		3.2, −1	.101
	2.4,0	.320		2.4, −1	.055
	1.8,0	.281		1.8, −1	.028
	1.3,0	.235			
			.40	3.2,0	.989
.15	1.8,1	.976		2.4,0	.962
	1.3,1	.928		1.8,0	.904
	1.0,1	.860		1.3,0	.792
	7.5,0	.759		1.0,0	.673
	5.6,0	.639		7.5, −1	.528
	4.2,0	.522		5.6, −1	.384
	3.2,0	.426		4.2, −1	.260
	2.4,0	.347		3.2, −1	.165
	1.8,0	.288		2.4, −1	.092
	1.3,0	.237		1.8, −1	.045
	1.0,0	.200			
	7.5, −1	.161	.45	2.4,0	.986
				1.8,0	.955
.20	1.0,1	.972		1.3,0	.880
	7.5,0	.925		1.0,0	.786
	5.6,0	.842		7.5, −1	.656
	4.2,0	.729		5.6, −1	.513
	3.2,0	.606		4.2, −1	.376
	2.4,0	.476		3.2, −1	.261
	1.8,0	.363		2.4, −1	.161
	1.3,0	.267		1.8, −1	.088
	1.0,0	.210		1.3, −1	.037
	7.5, −1	.164			
	5.6, −1	.125	.50	1.8,0	.982
	4.2, −1	.092		1.3,0	.937
				1.0,0	.870
.25	7.5,0	.985		7.5, −1	.764
	5.6,0	.950		5.6, −1	.634
	4.2,0	.883		4.2, −1	.498
	3.2,0	.786		3.2, −1	.375
	2.4,0	.657		2.4, −1	.258
	1.8,0	.516		1.8, −1	.163
	1.3,0	.368		1.3, −1	.083
	1.0,0	.271		1.0, −1	.042
	7.5, −1	.191			
	5.6, −1	.134	.60	1.3,0	.987
	4.2, −1	.095		1.0,0	.961

$\theta_0=360°; \frac{\theta}{\theta_0}=0.50$—Continued

r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$	r/a	$\frac{Tt}{r^2s}$	$1-\frac{s}{s_0}$
0.60	7.5, −1	0.907	0.70	7.5, −1	0.972
	5.6, −1	.822		5.6, −1	.930
	4.2, −1	.715		4.2, −1	.866
	3.2, −1	.605		3.2, −1	.788
	2.4, −1	.487		2.4, −1	.697
	1.8, −1	.376		1.8, −1	.603
	1.3, −1	.262		1.3, −1	.497
	1.0, −1	.183		1.0, −1	.414
	7.5, −2	.113		7.5, −2	.326
	5.6, −2	.061		5.6, −2	.242
	4.2, −2	.028		4.2, −2	.167
0.70	3.2, −2	0.108	0.80	1.0, −1	0.655
	2.4, −2	.061		7.5, −2	.586
	1.8, −2	.029		5.6, −2	.512
				4.2, −2	.436
.80	5.6, −1	.979		3.2, −2	.363
	4.2, −1	.950		2.4, −2	.285
	3.2, −1	.908		1.8, −2	.210
	2.4, −1	.852		1.3, −2	.136
	1.8, −1	.790		1.0, −2	.086
	1.3, −1	.716		7.5 −3	.046

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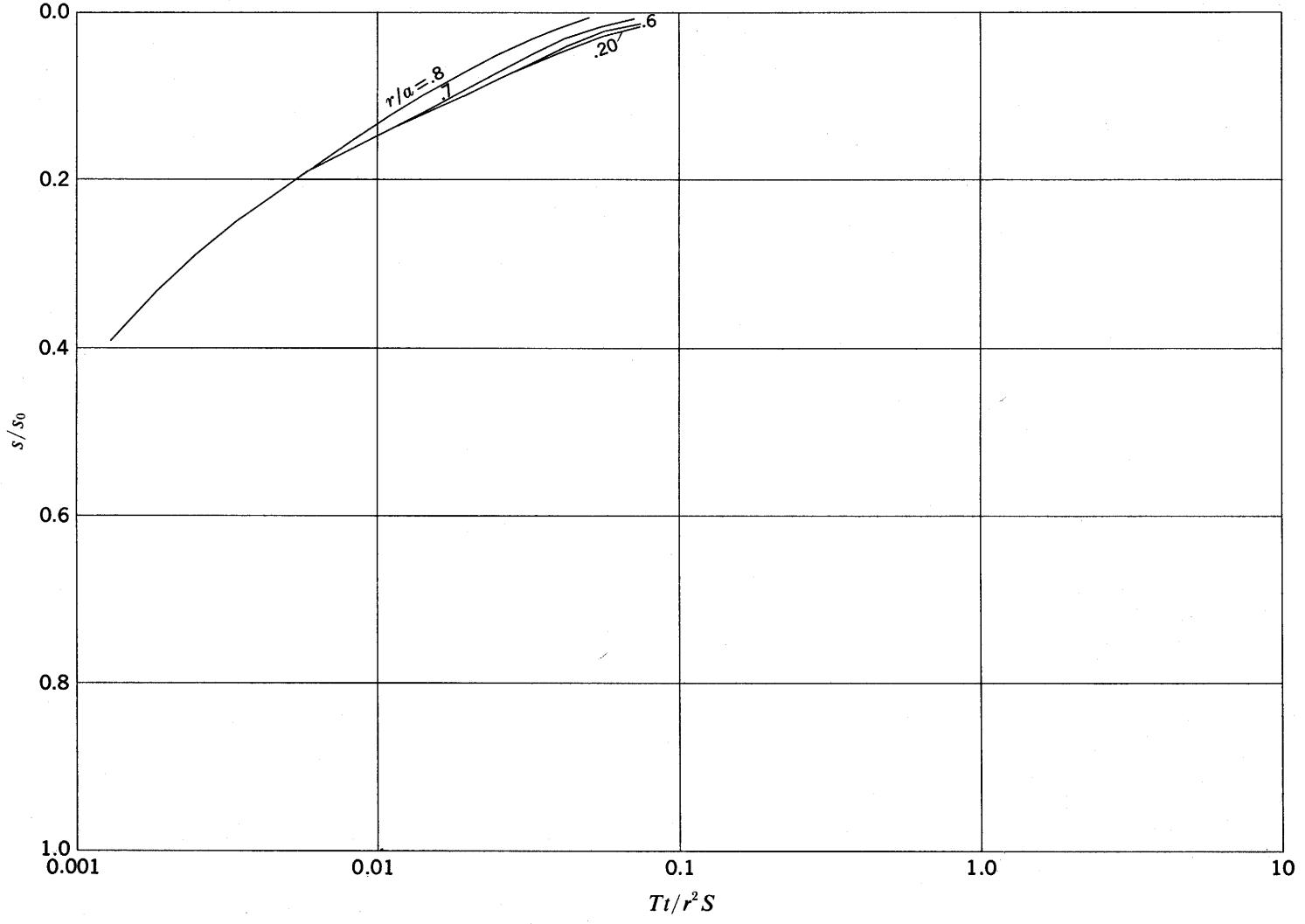
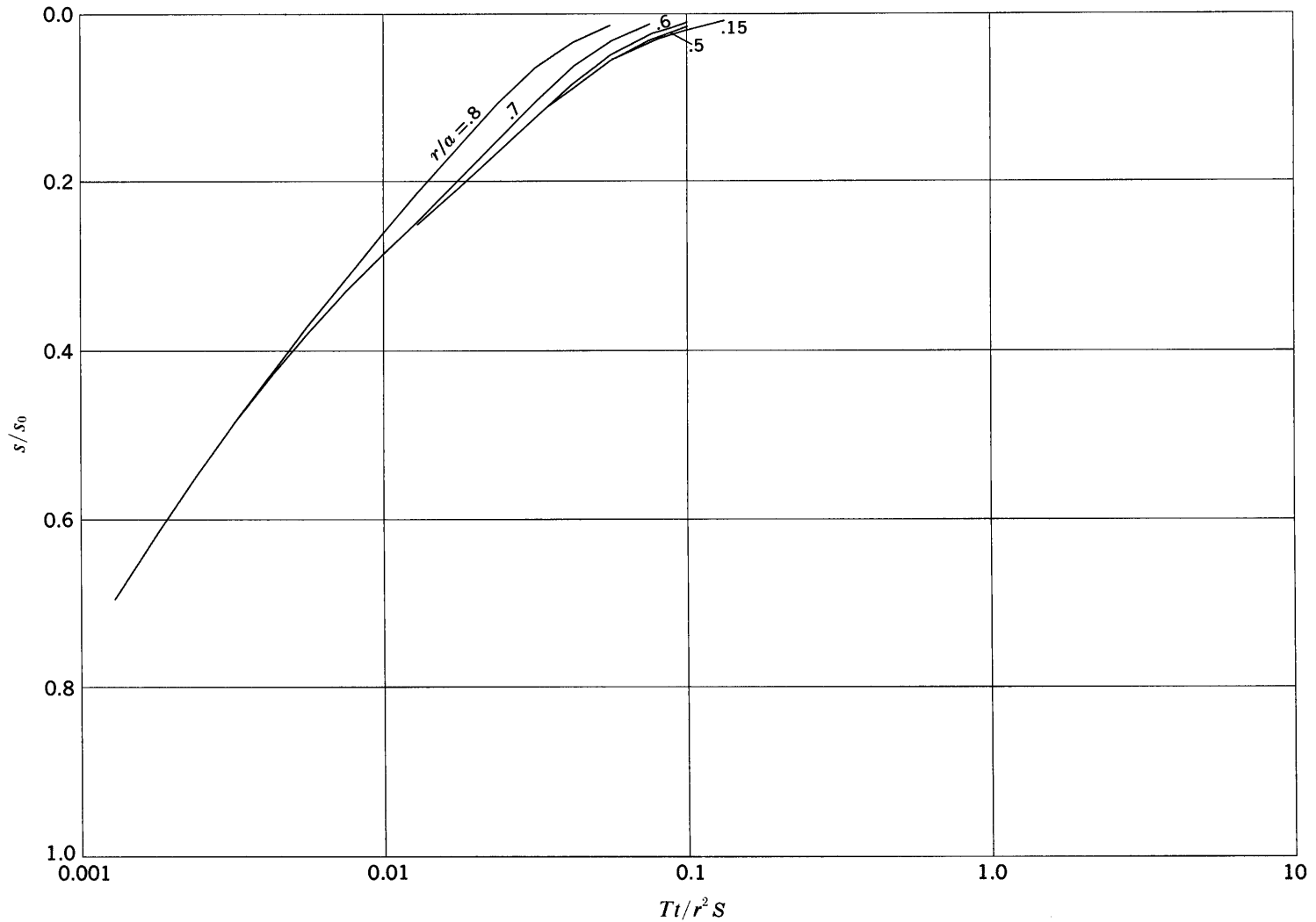
Measurement of Hydraulic Diffusivity of Wedge-Shaped Aquifers Drained by Streams

GEOLOGICAL SURVEY PROFESSIONAL PAPER 514

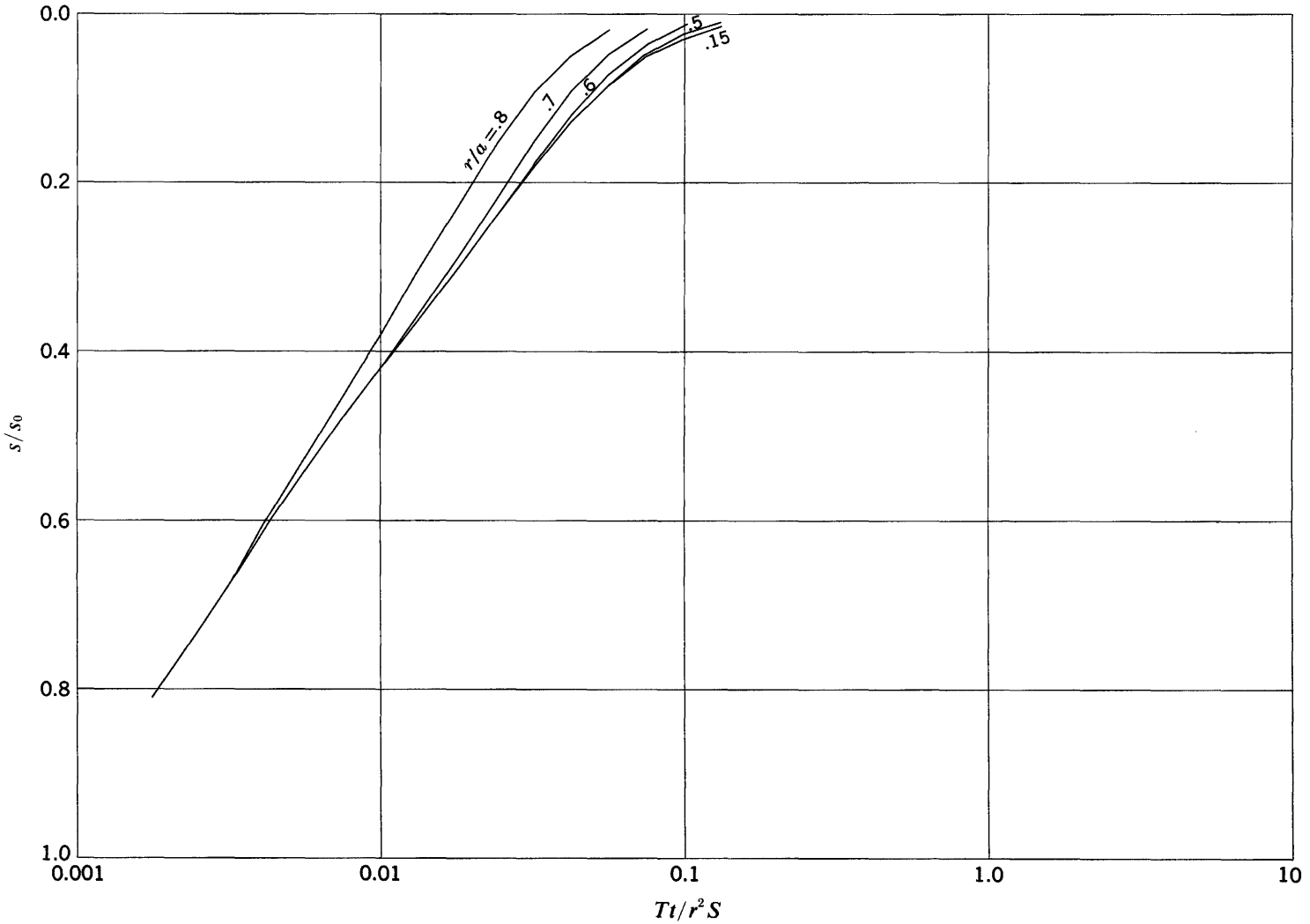
PLATES 1–120



s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.05$



s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.10$



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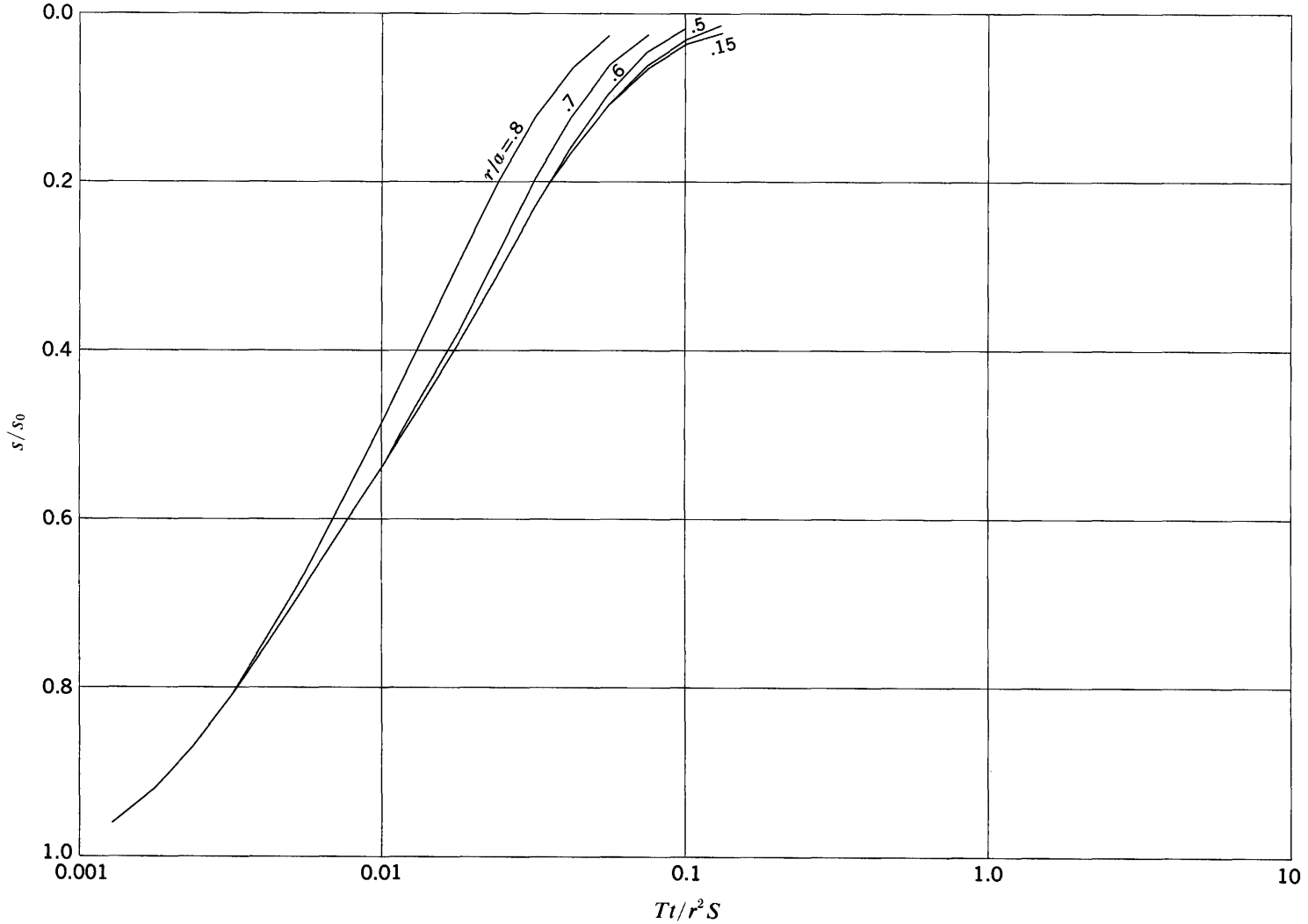

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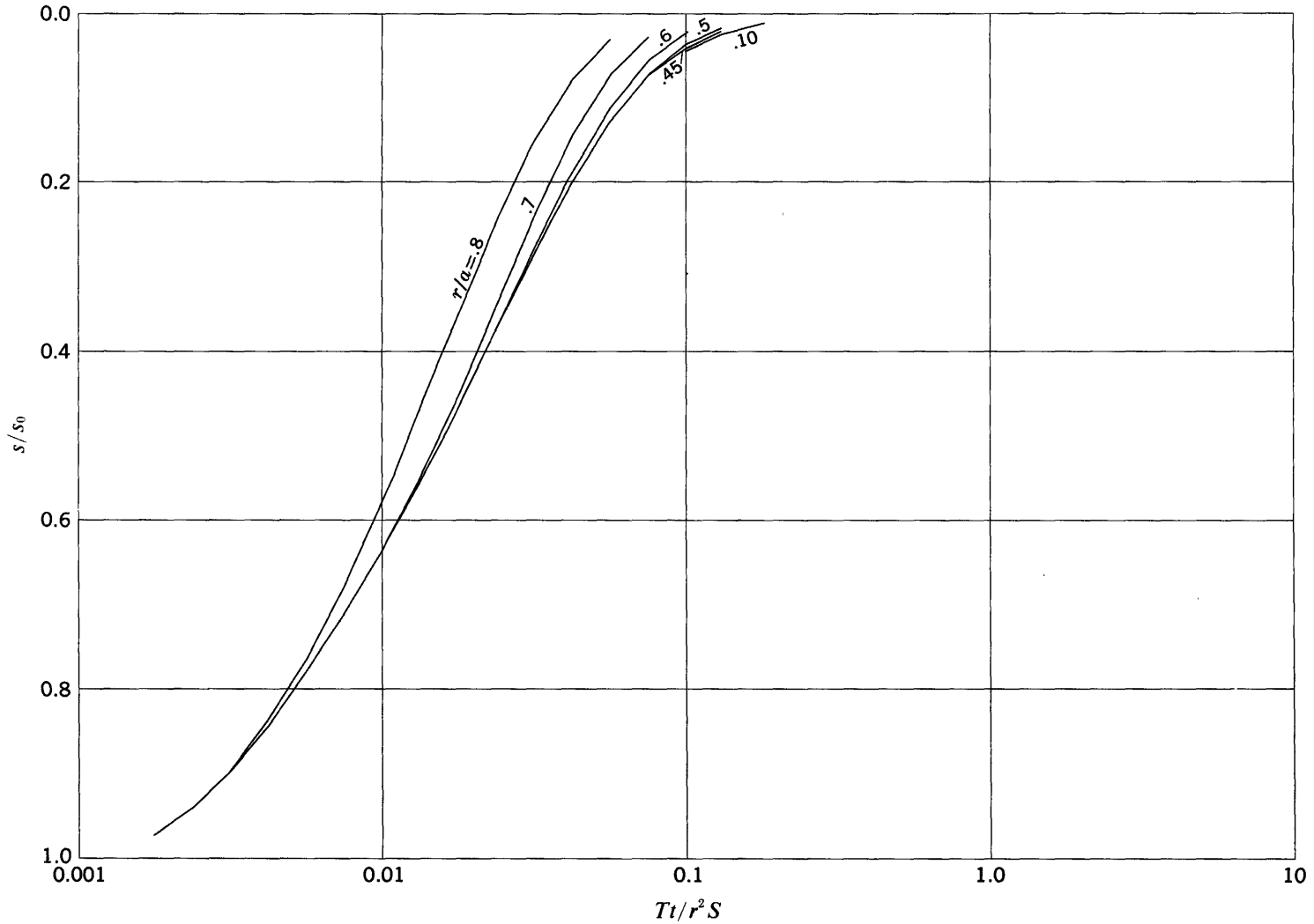
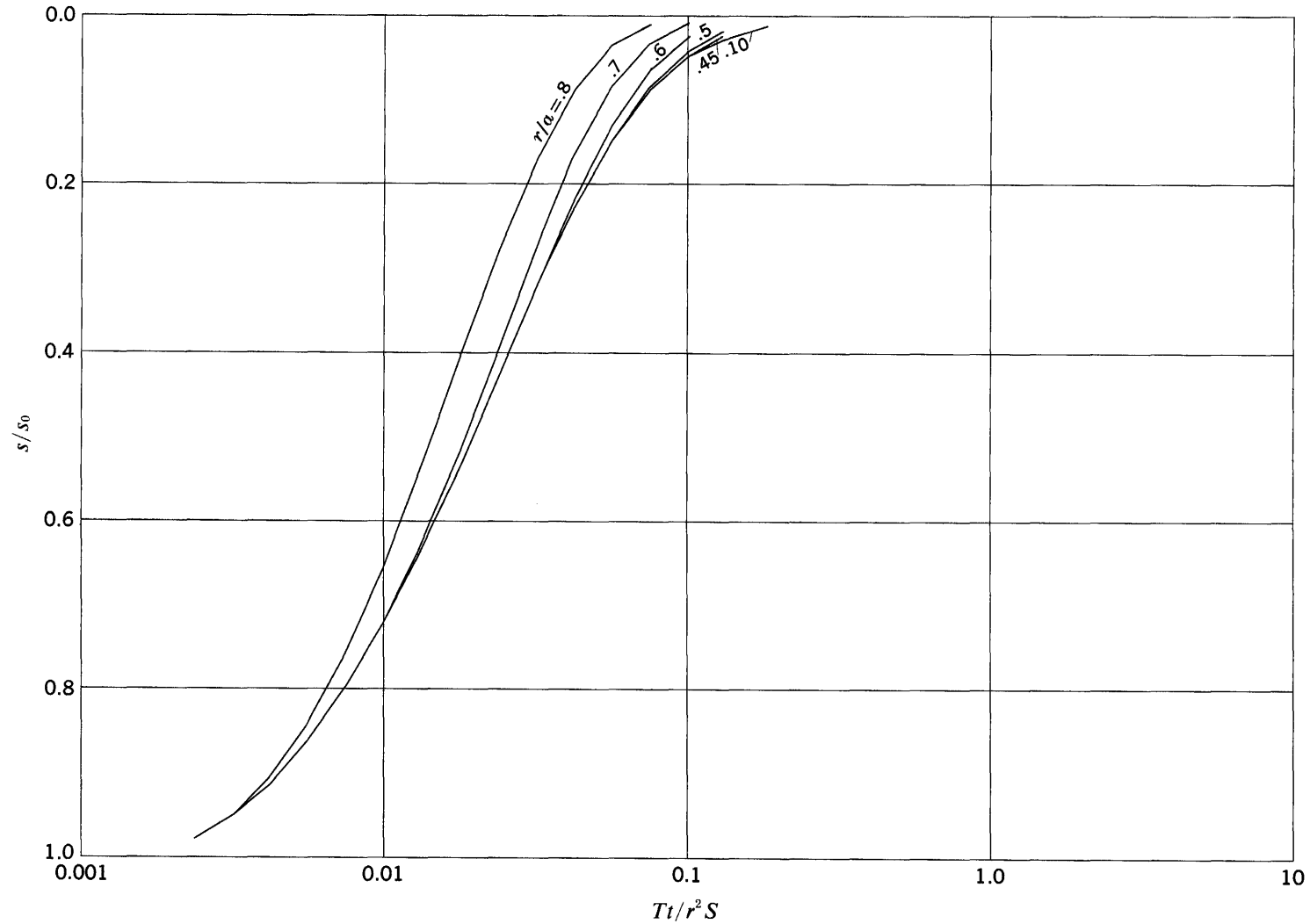
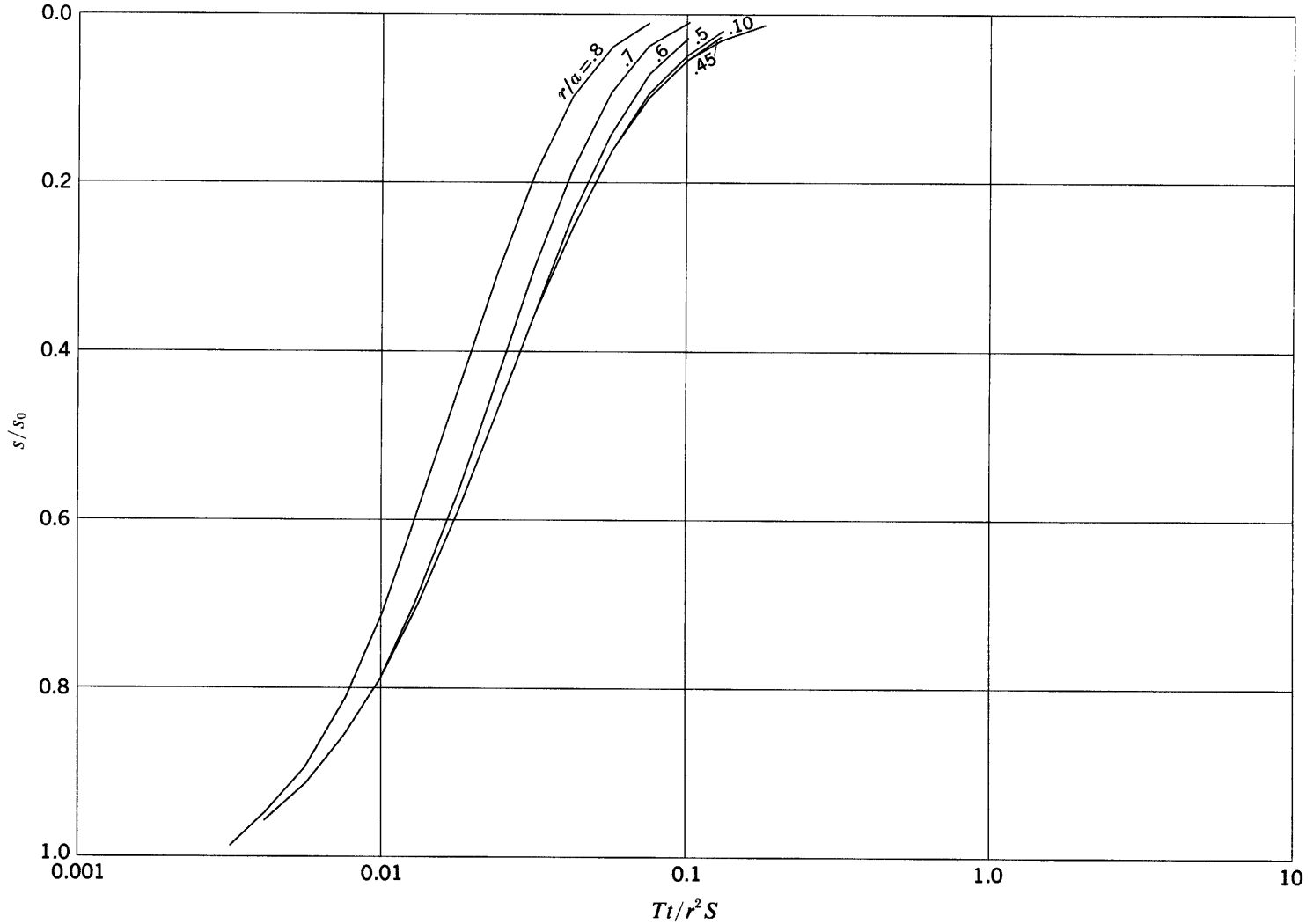


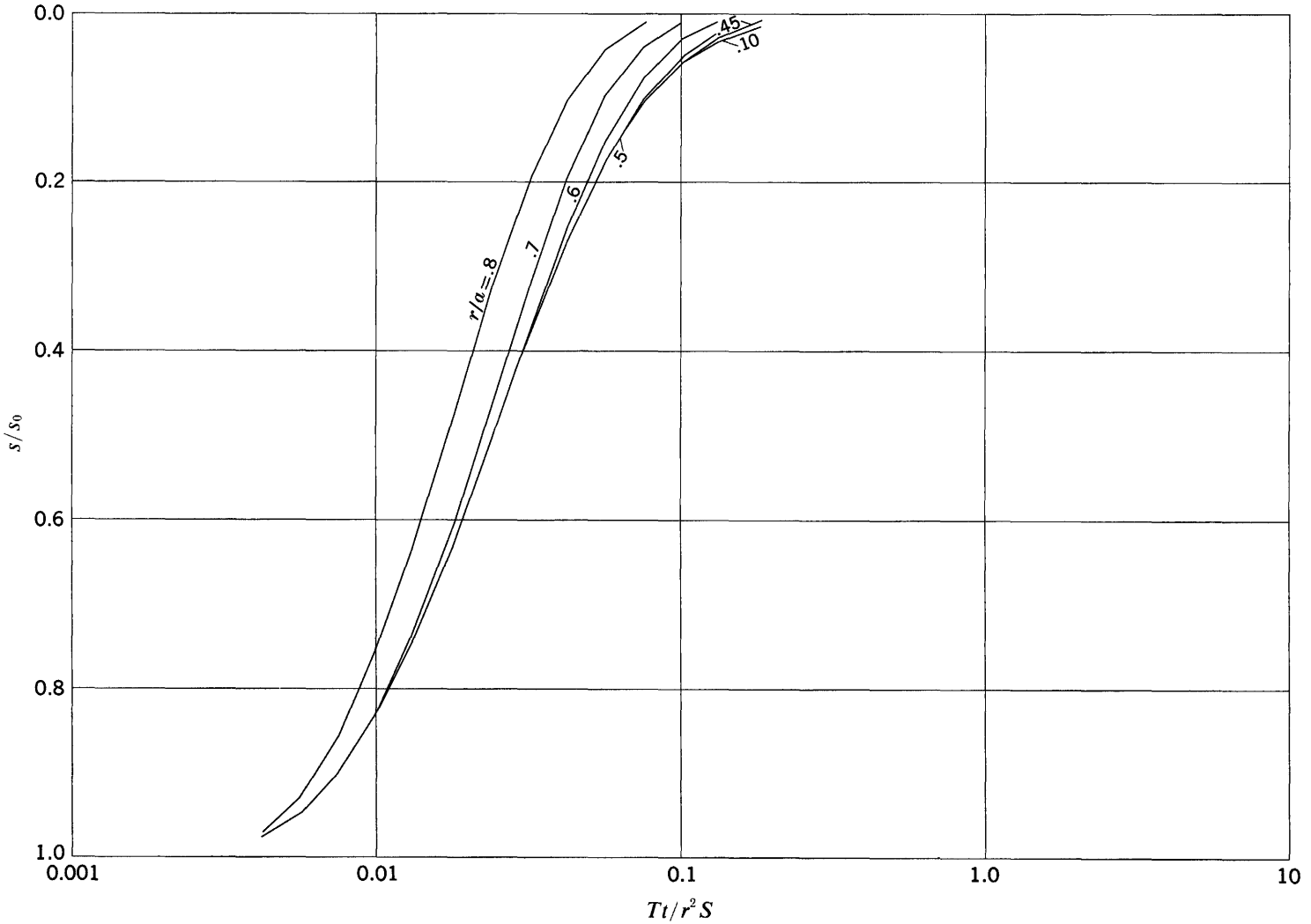
s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.25$



s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.30$



s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.35$



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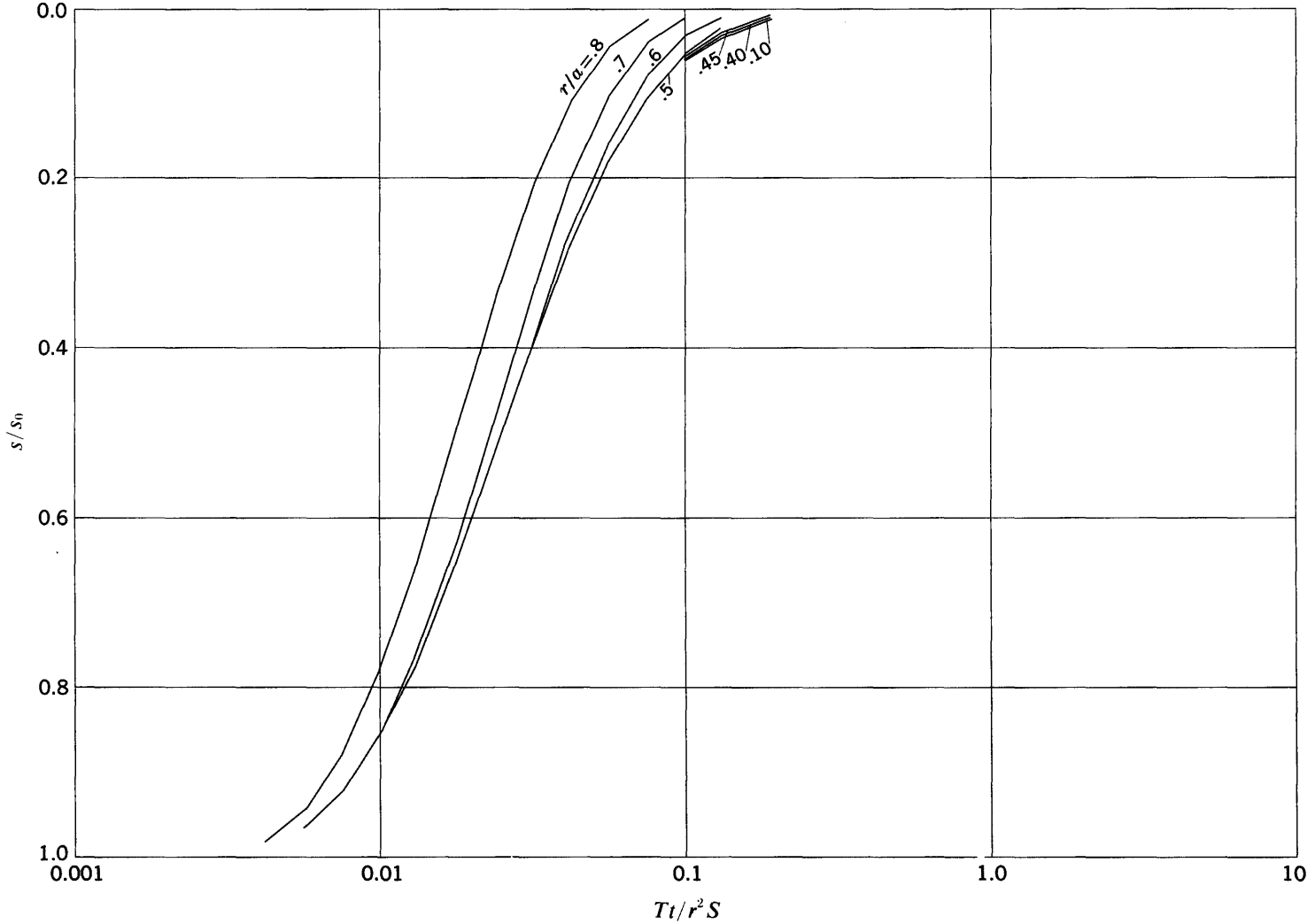
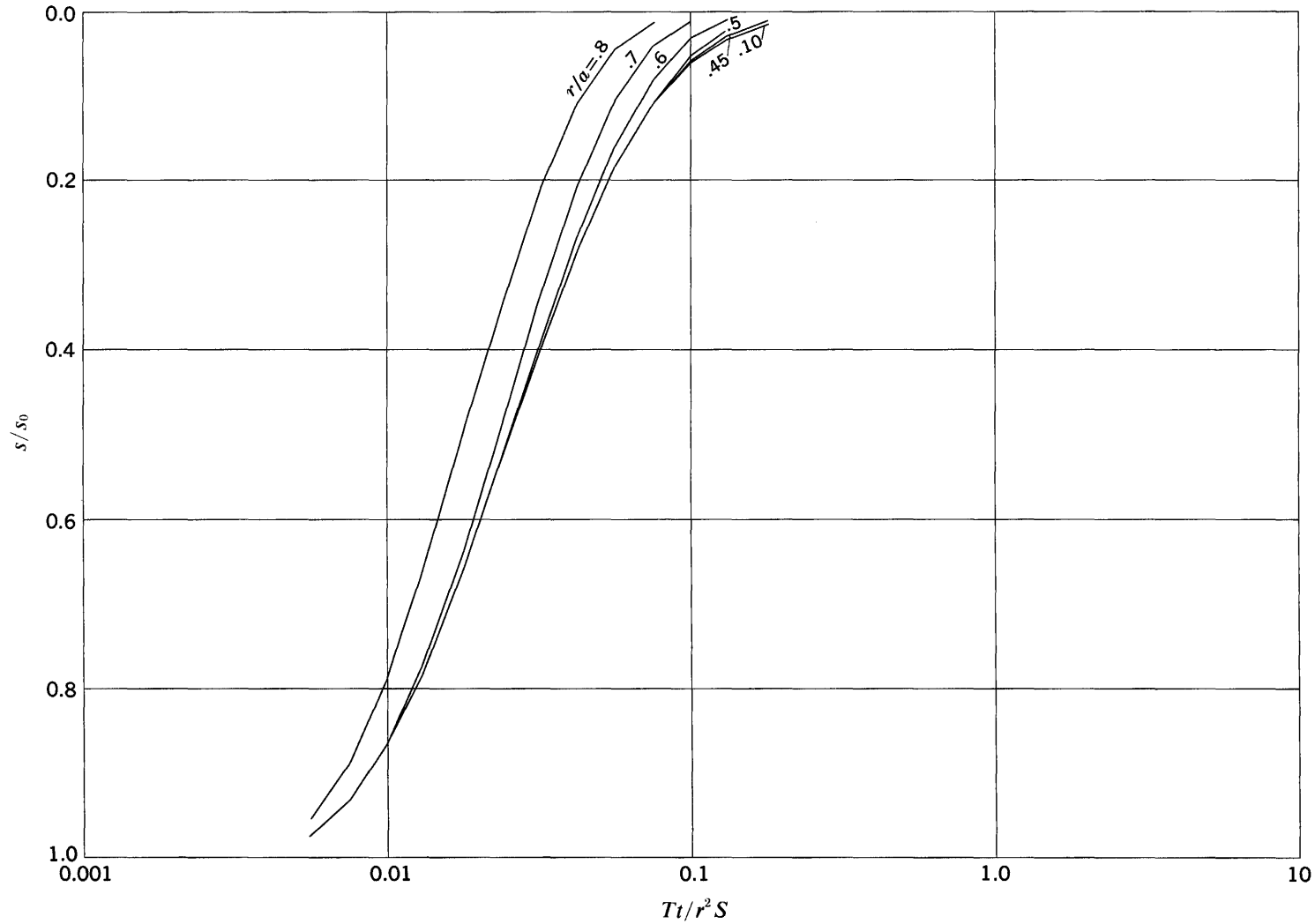
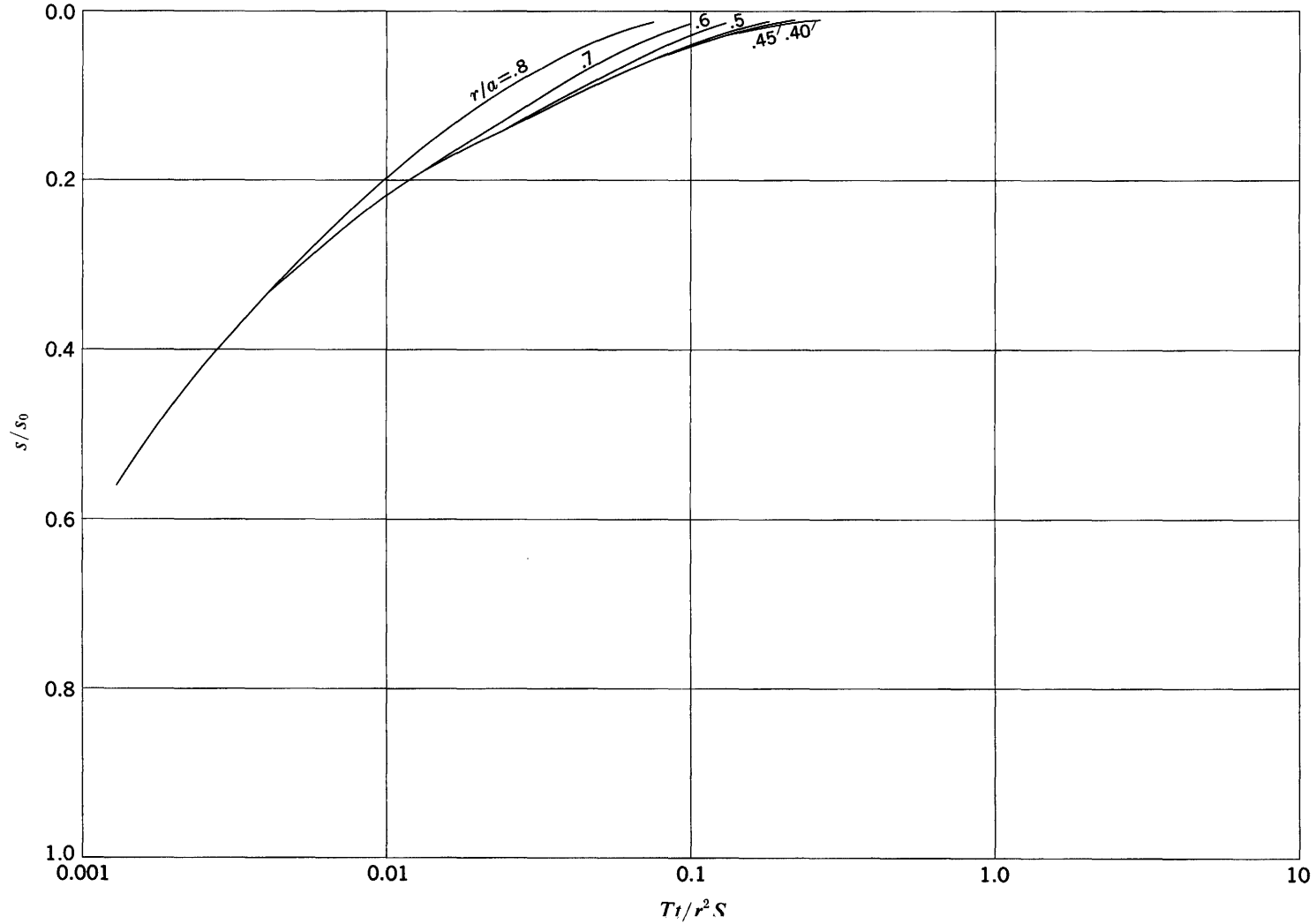


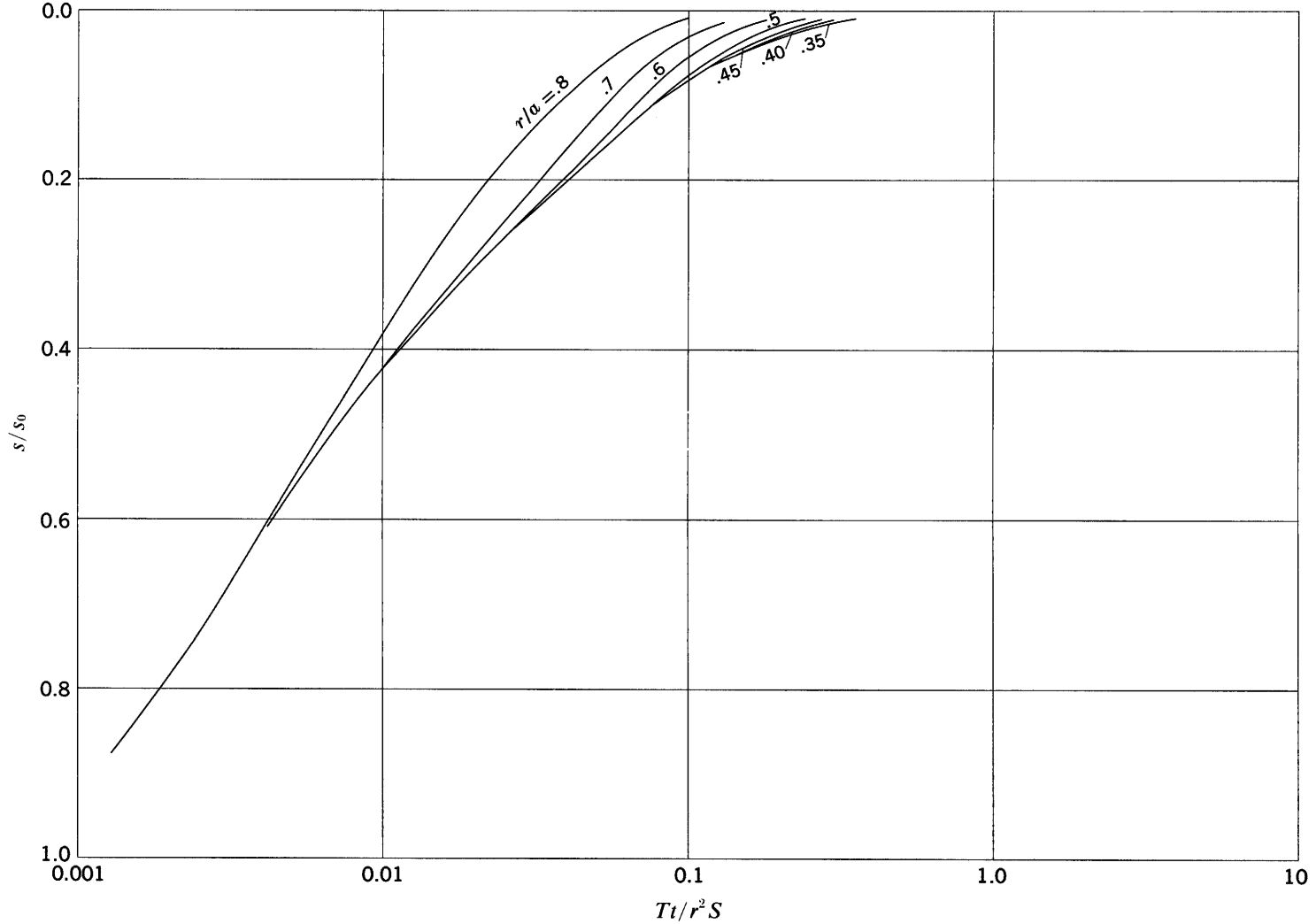
s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.45$



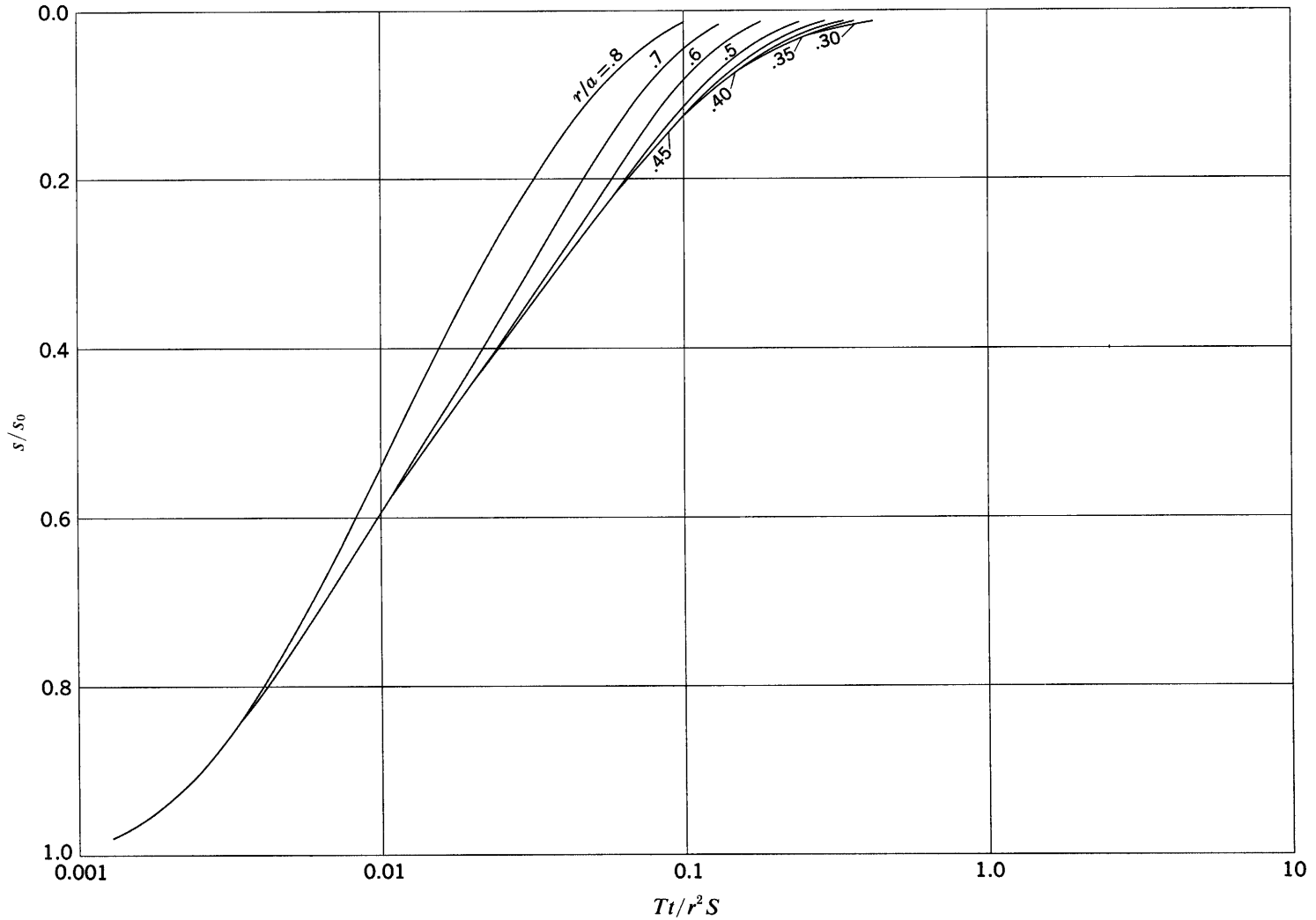
s/s_0 versus Tt/r^2S for $\theta_0 = 30°$; $\theta/\theta_0 = 0.50$



s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.05$



s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.10$



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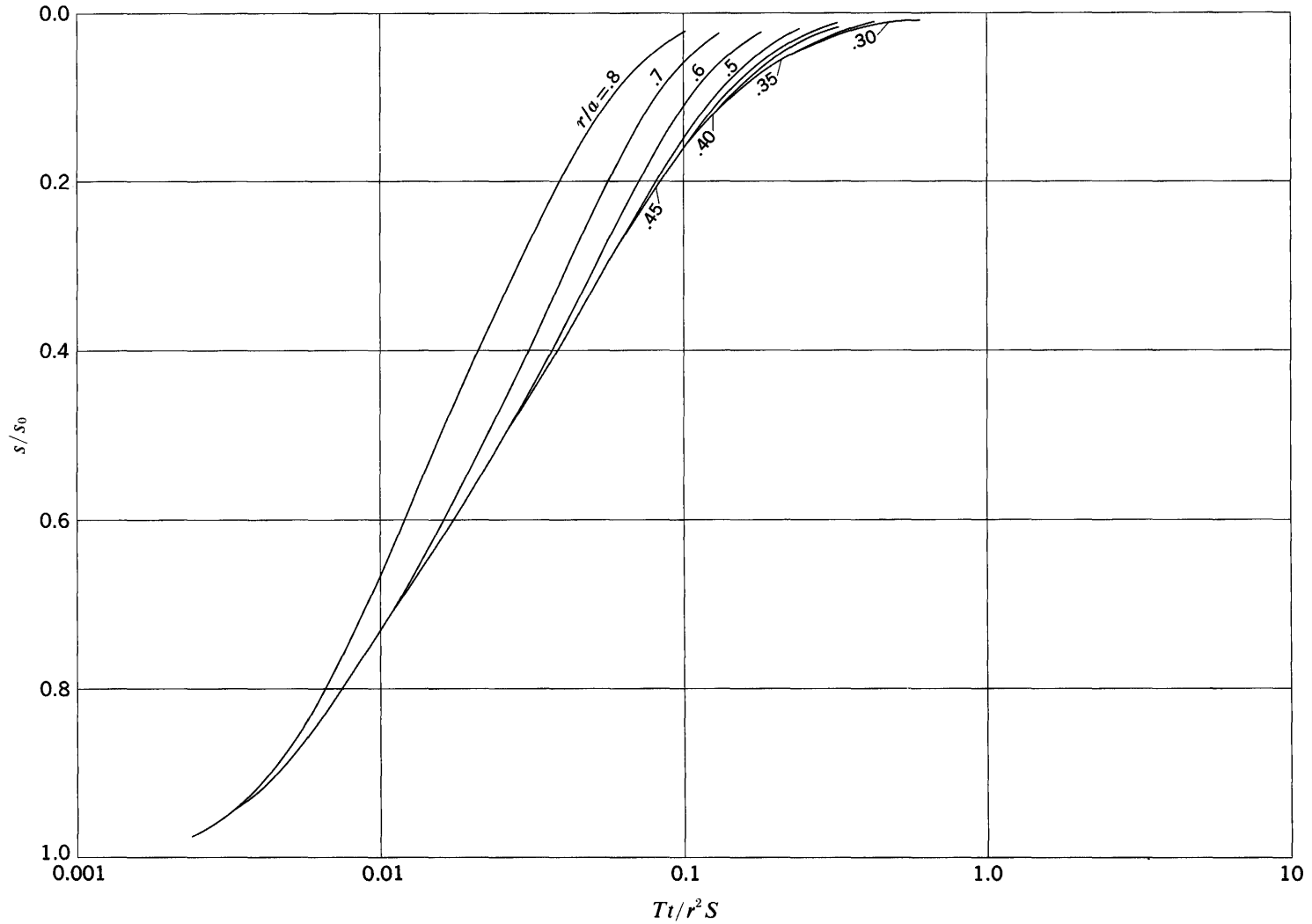
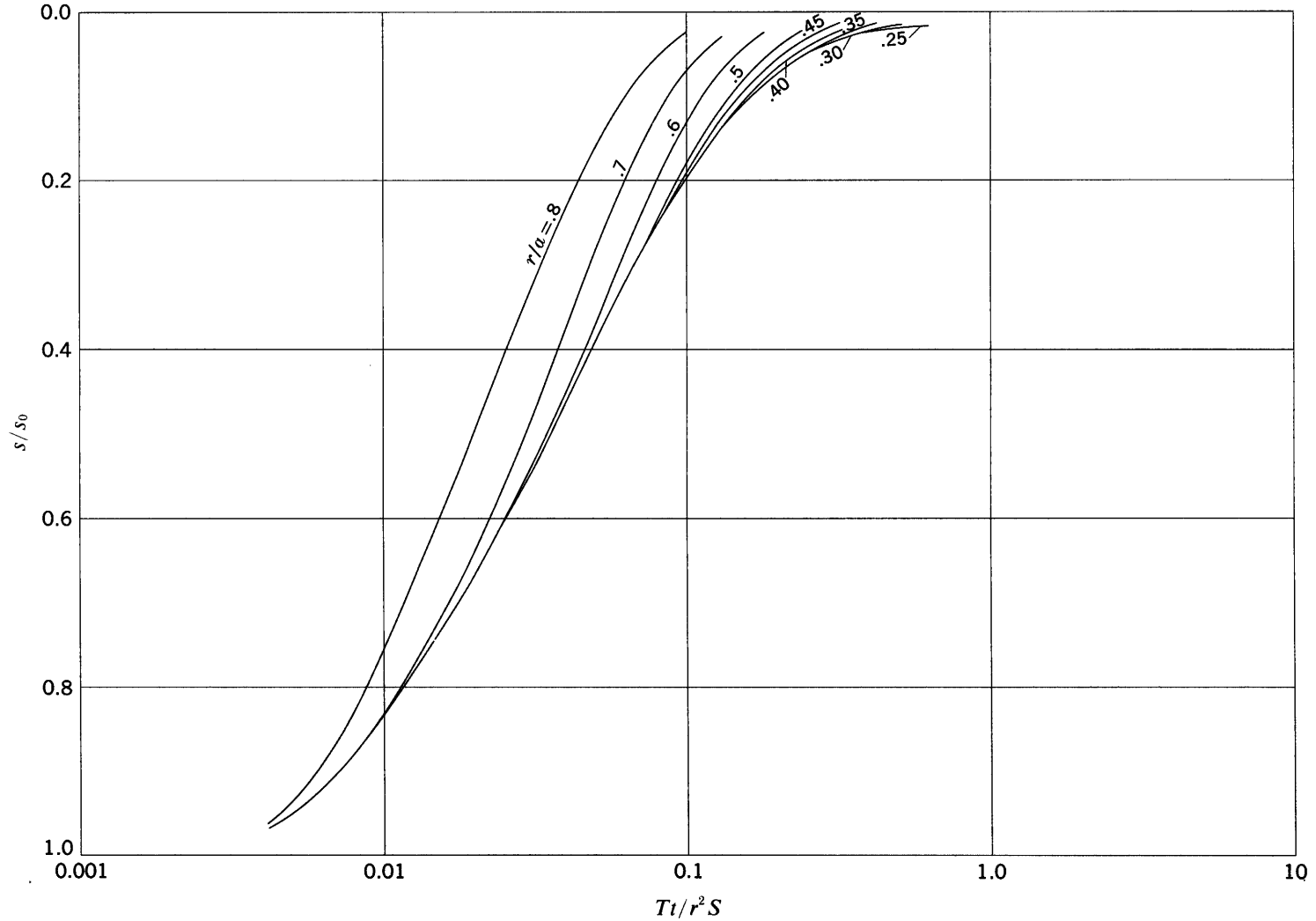
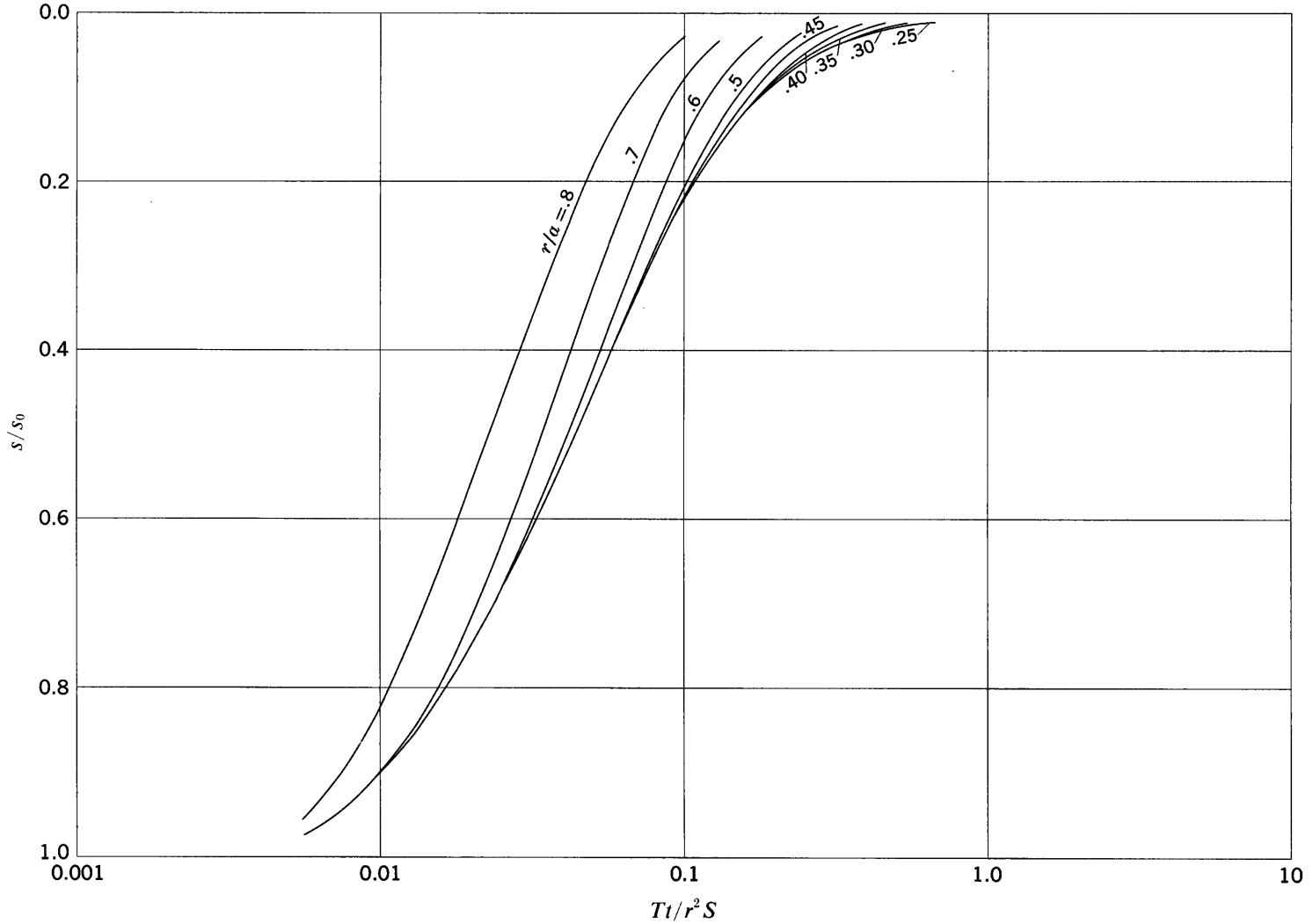


s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.20$



s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.25$



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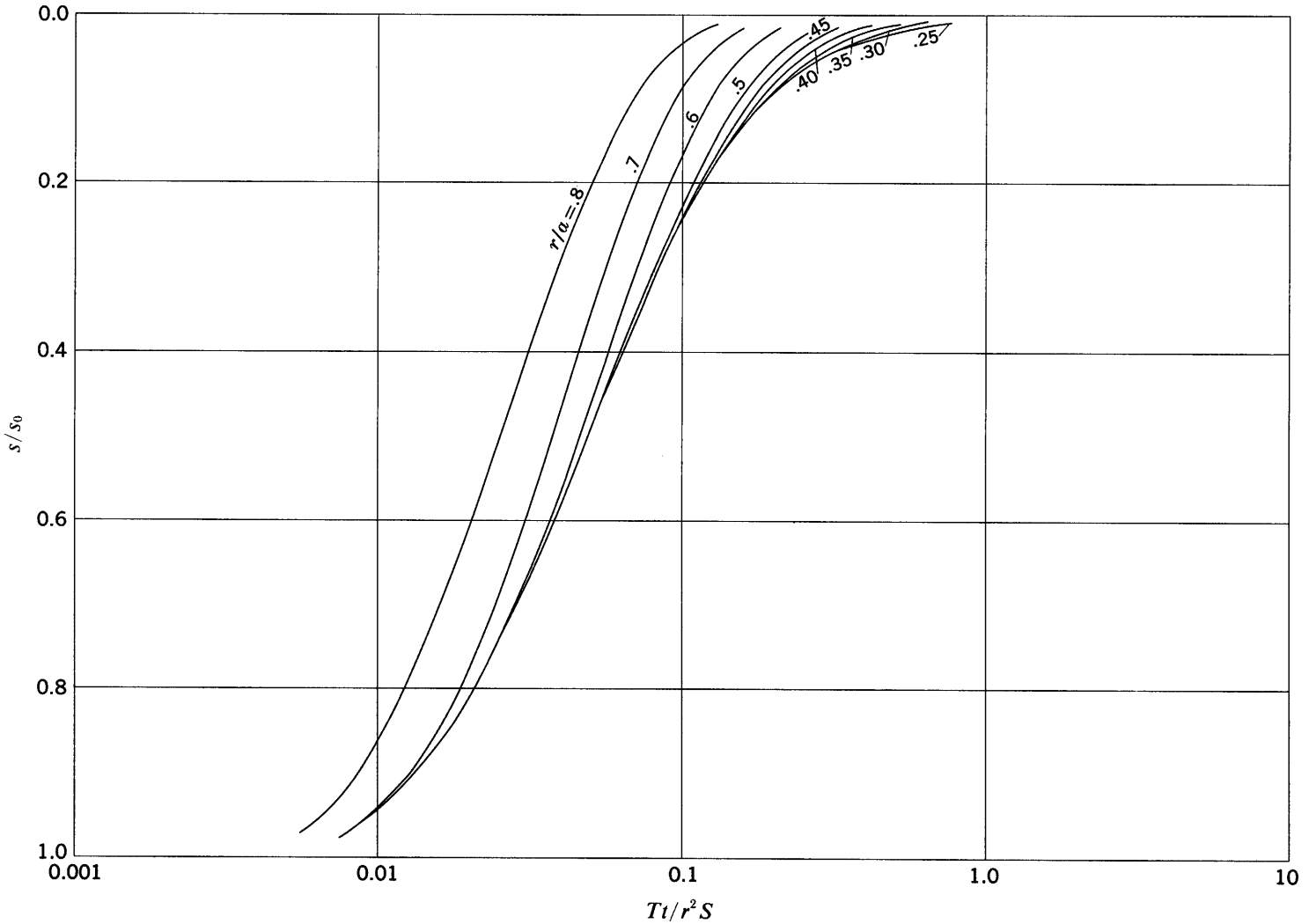
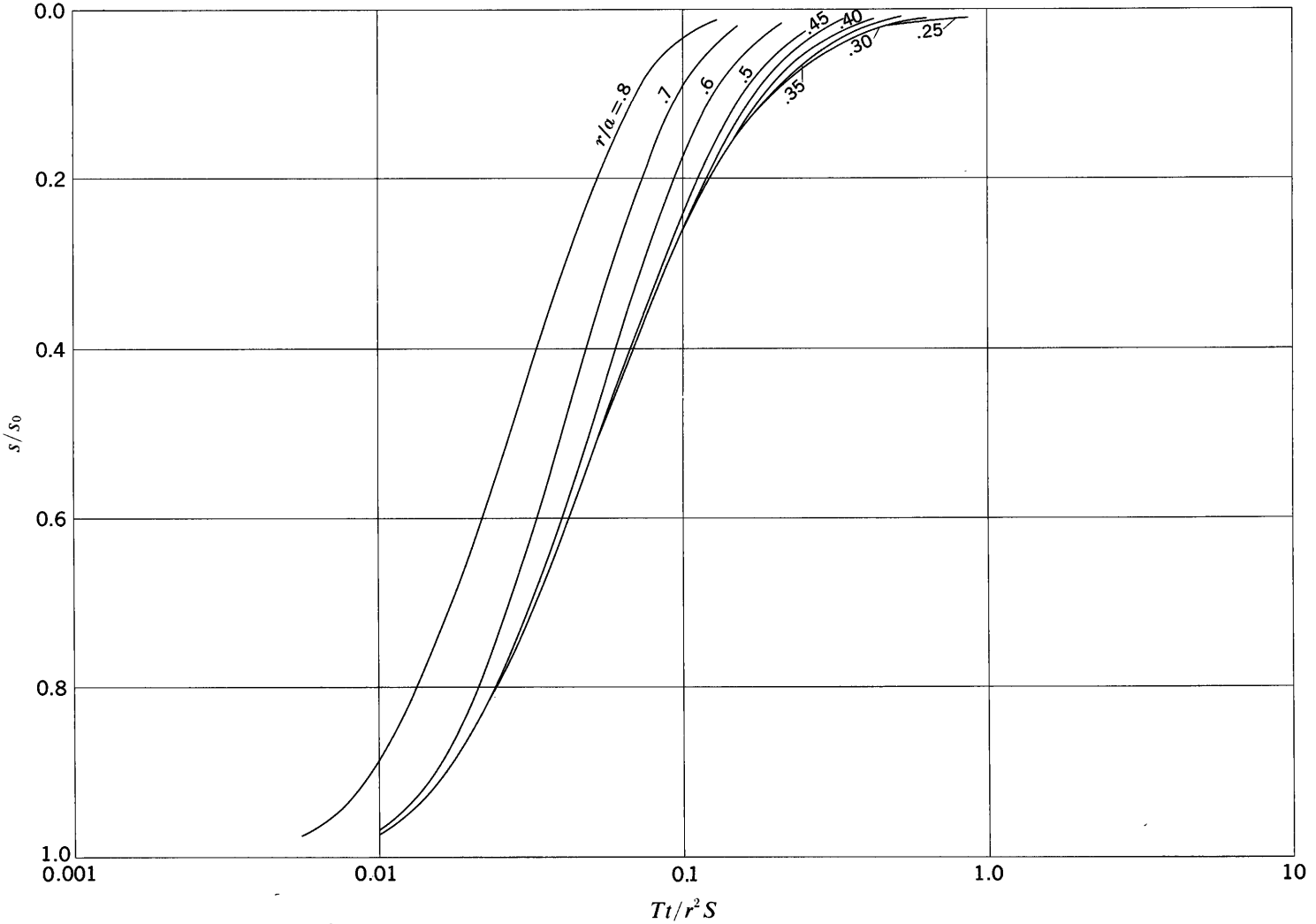
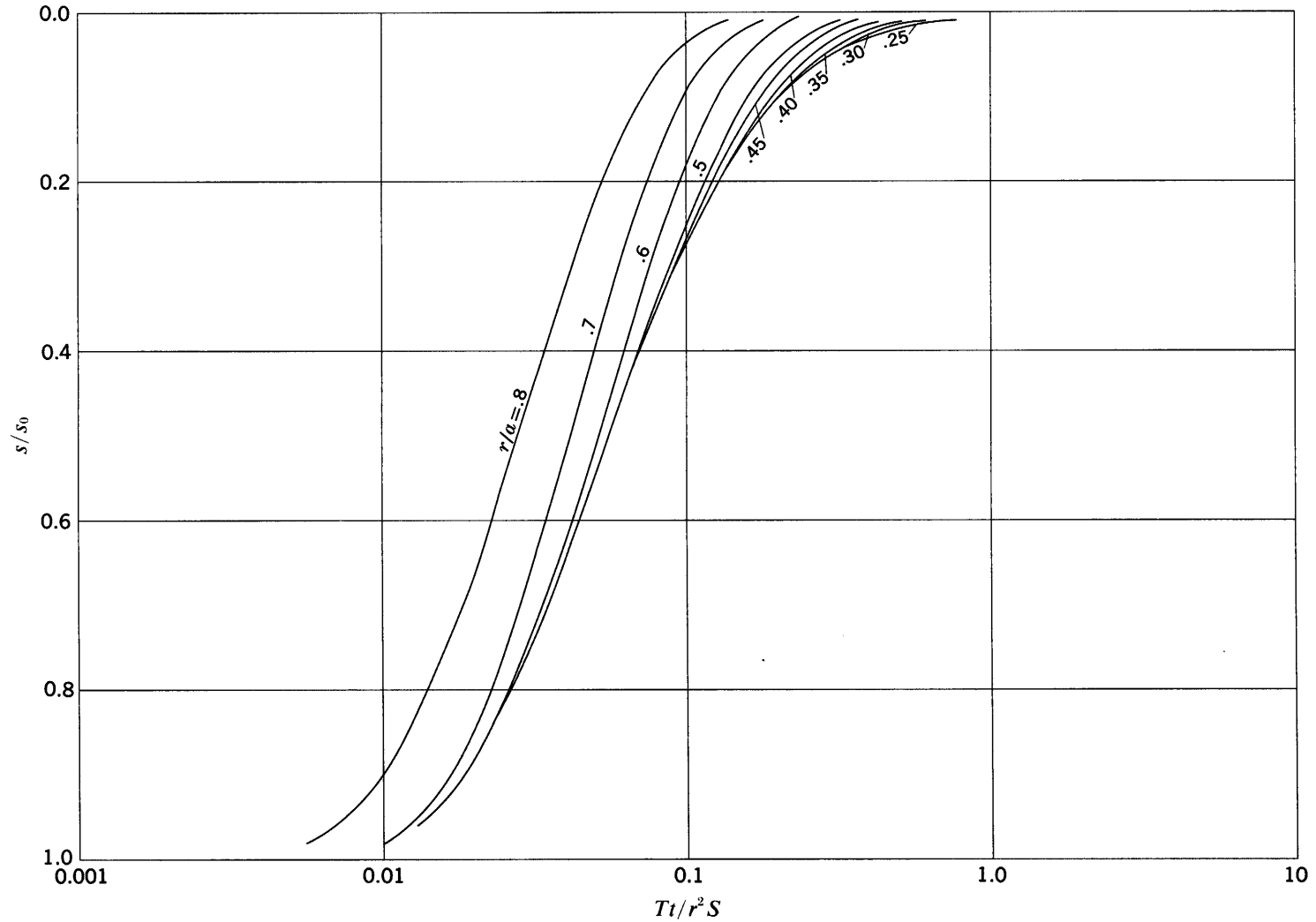


s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.35$



s/s_0 versus Tt/r^2S for $\theta_0 = 45°$; $\theta/\theta_0 = 0.40$



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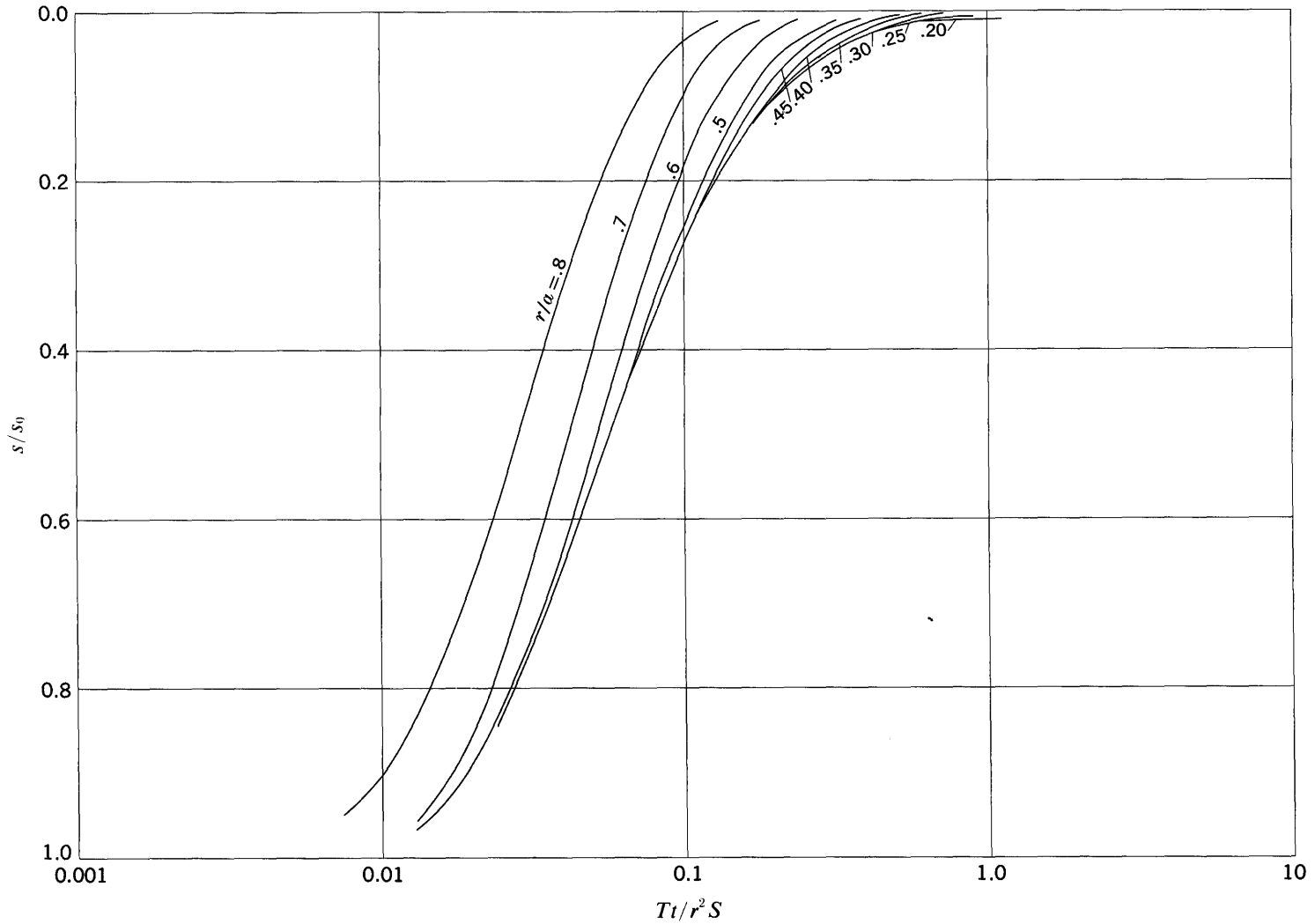

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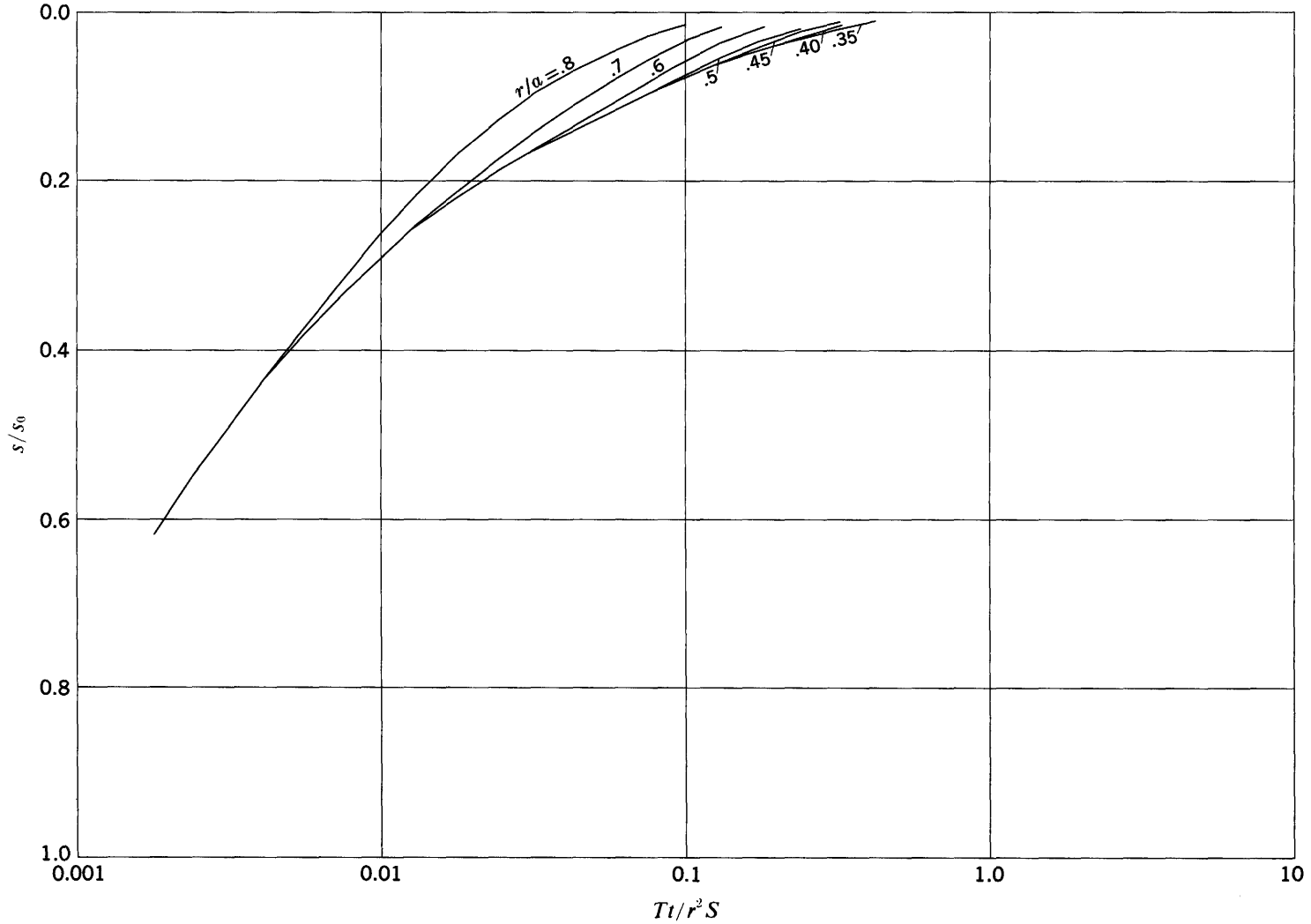
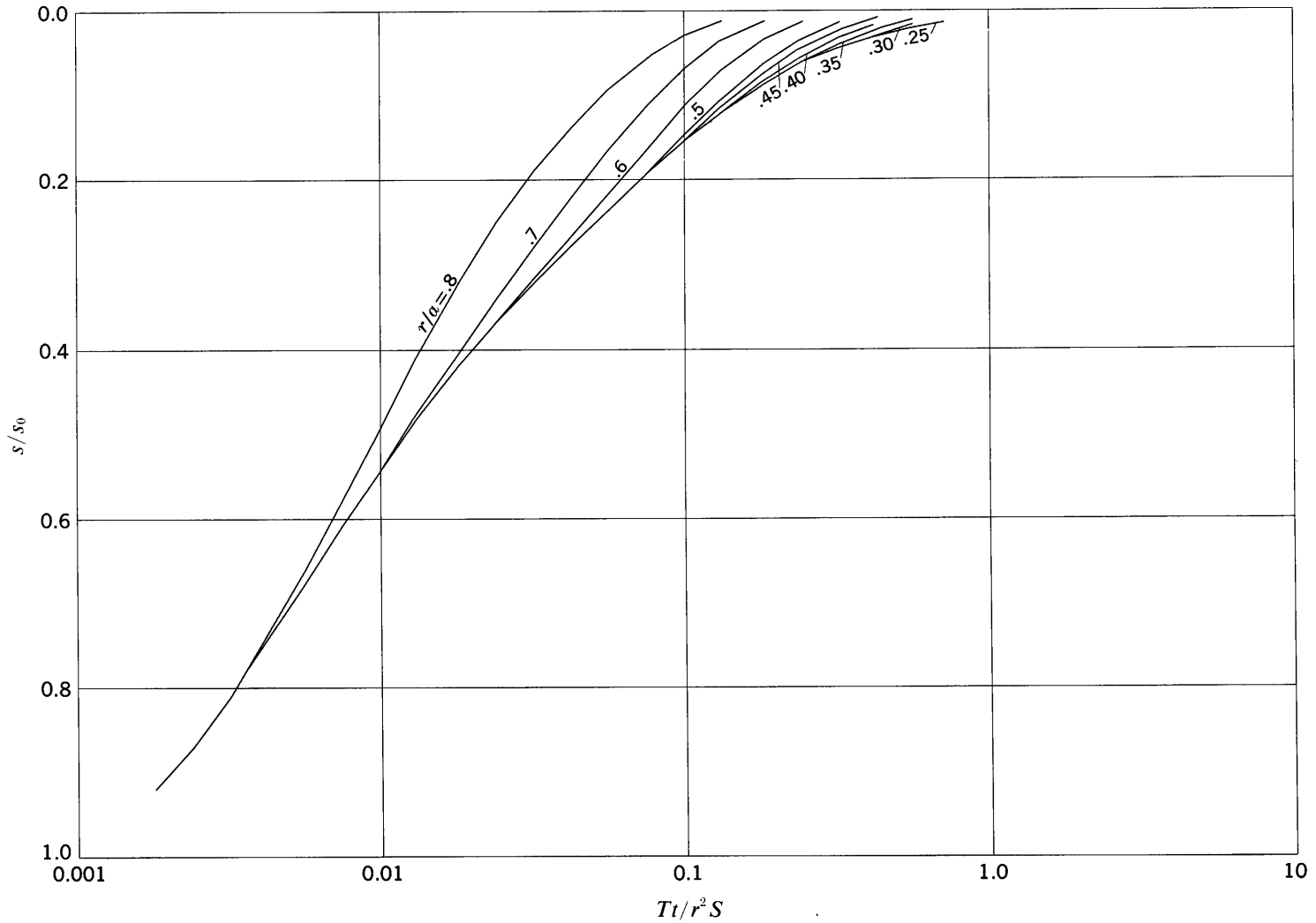


s/s_0 versus Tt/r^2S for $\theta_0 = 60°$; $\theta/\theta_0 = 0.05$



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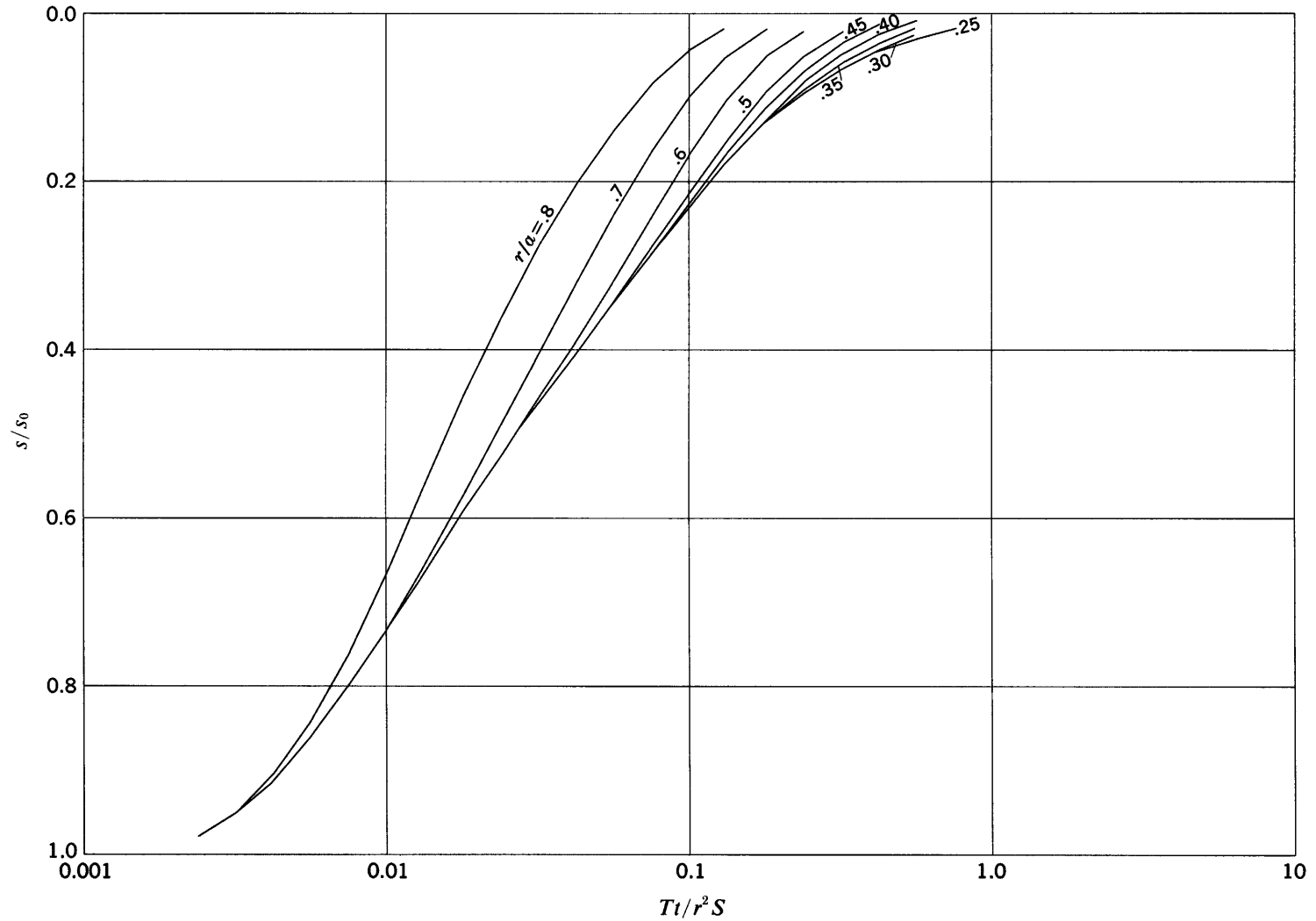

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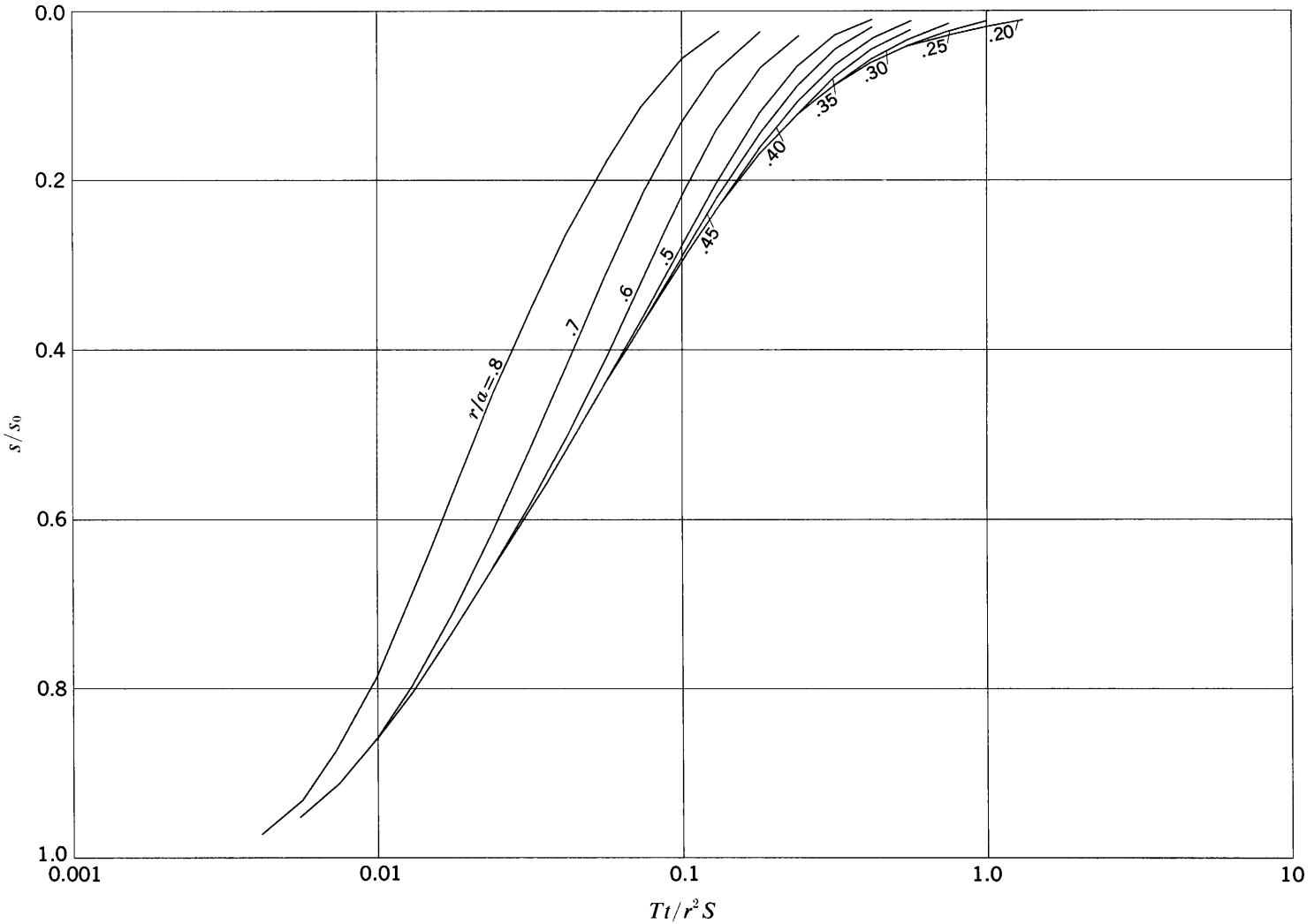

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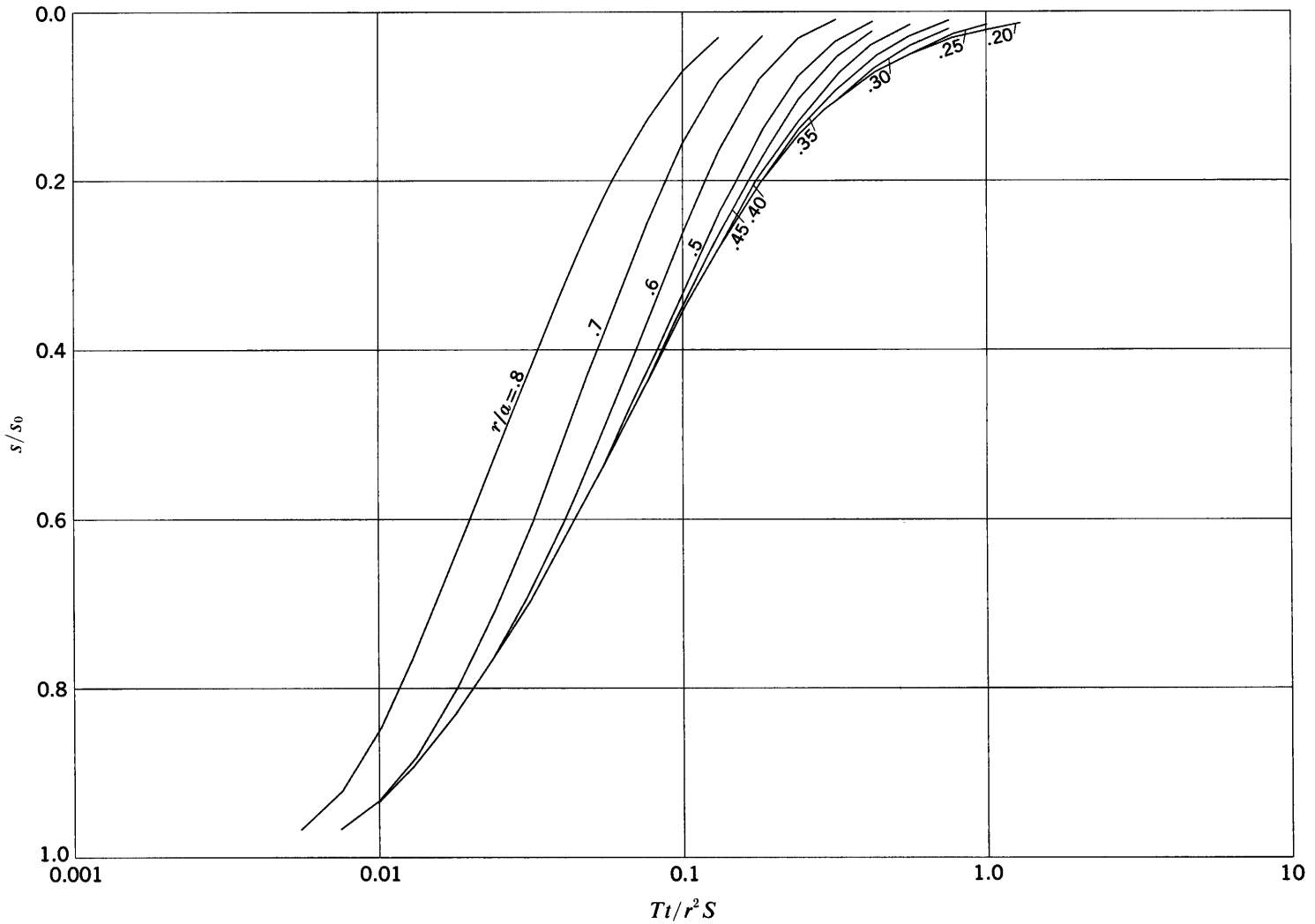

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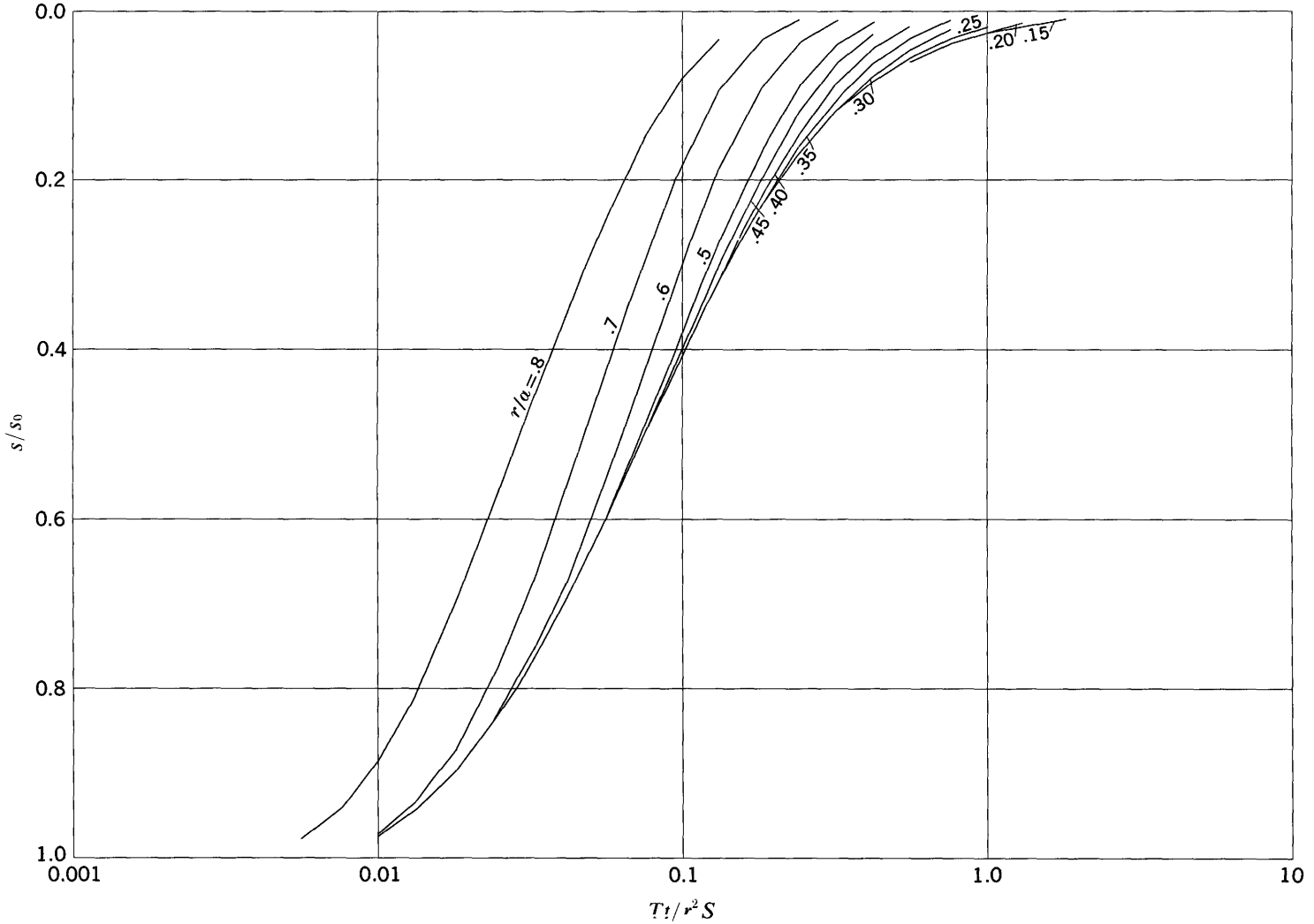

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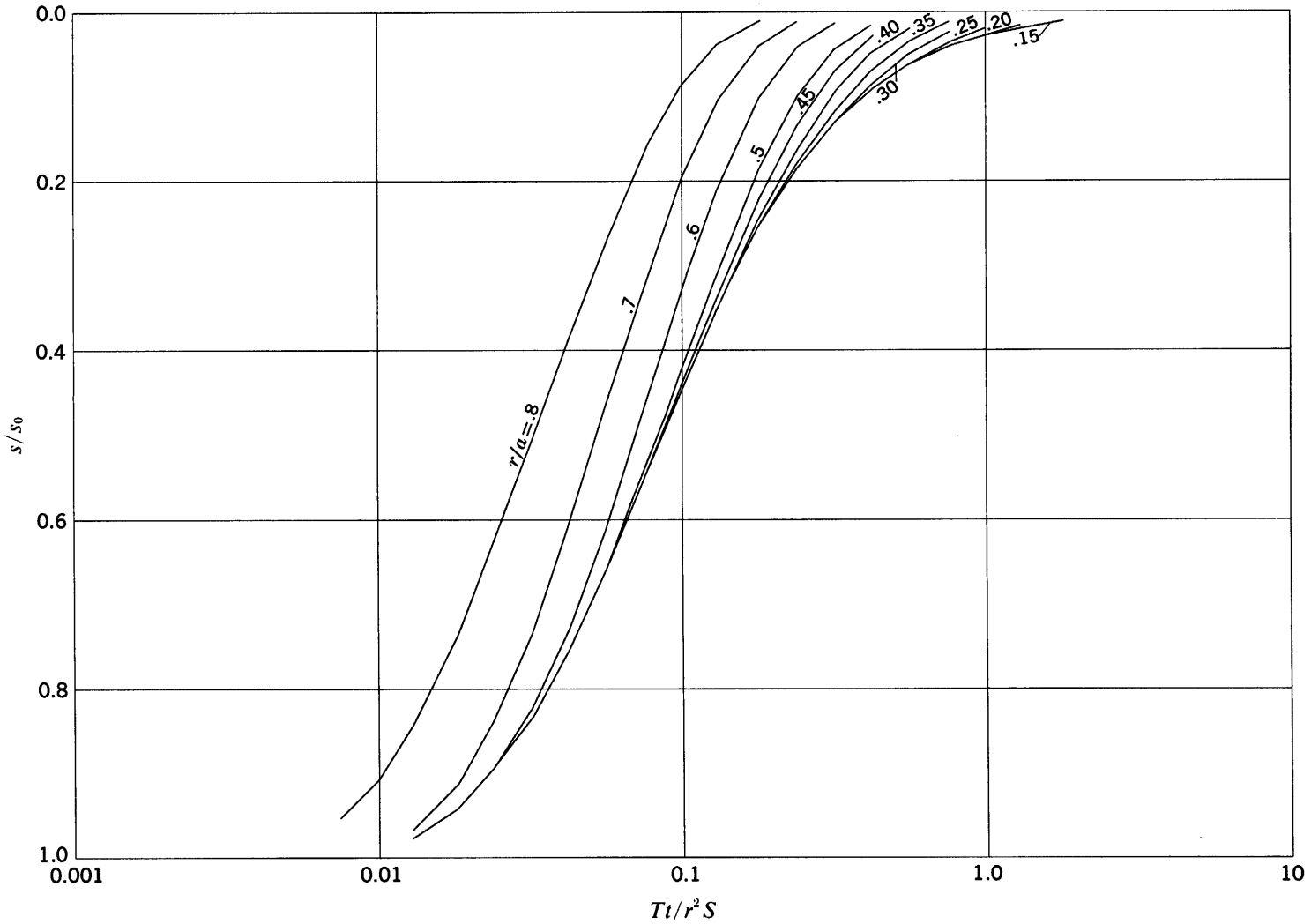

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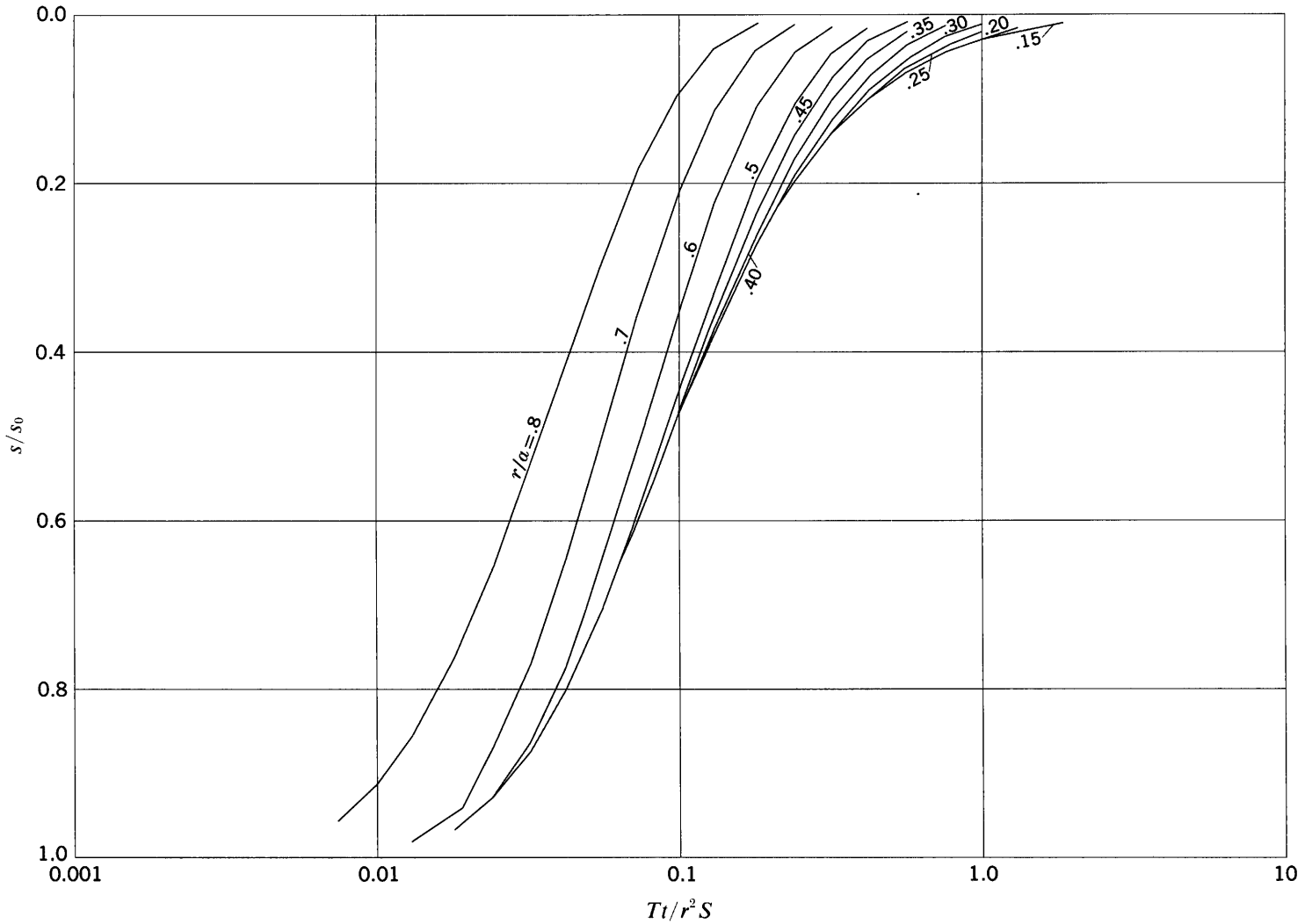

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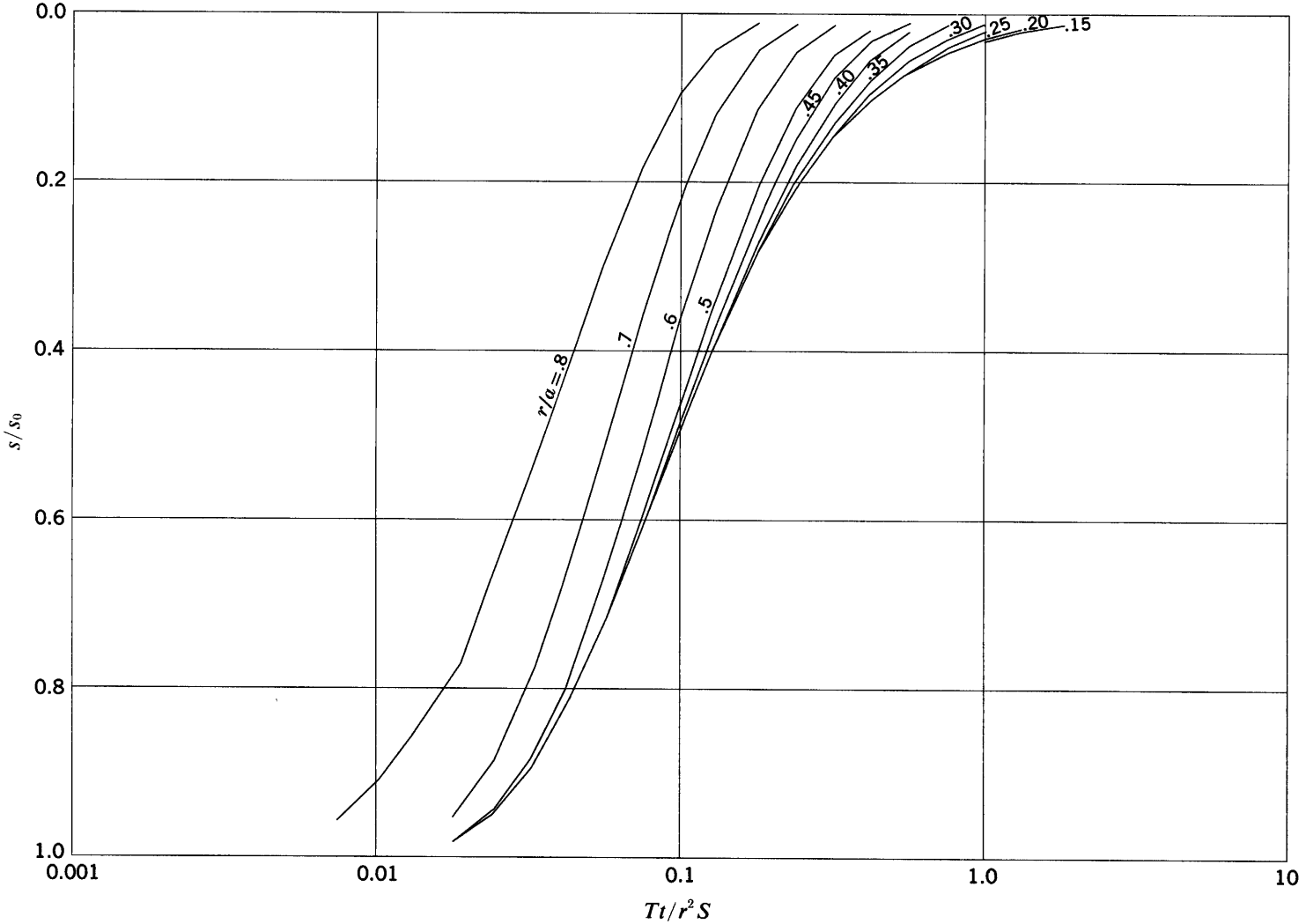

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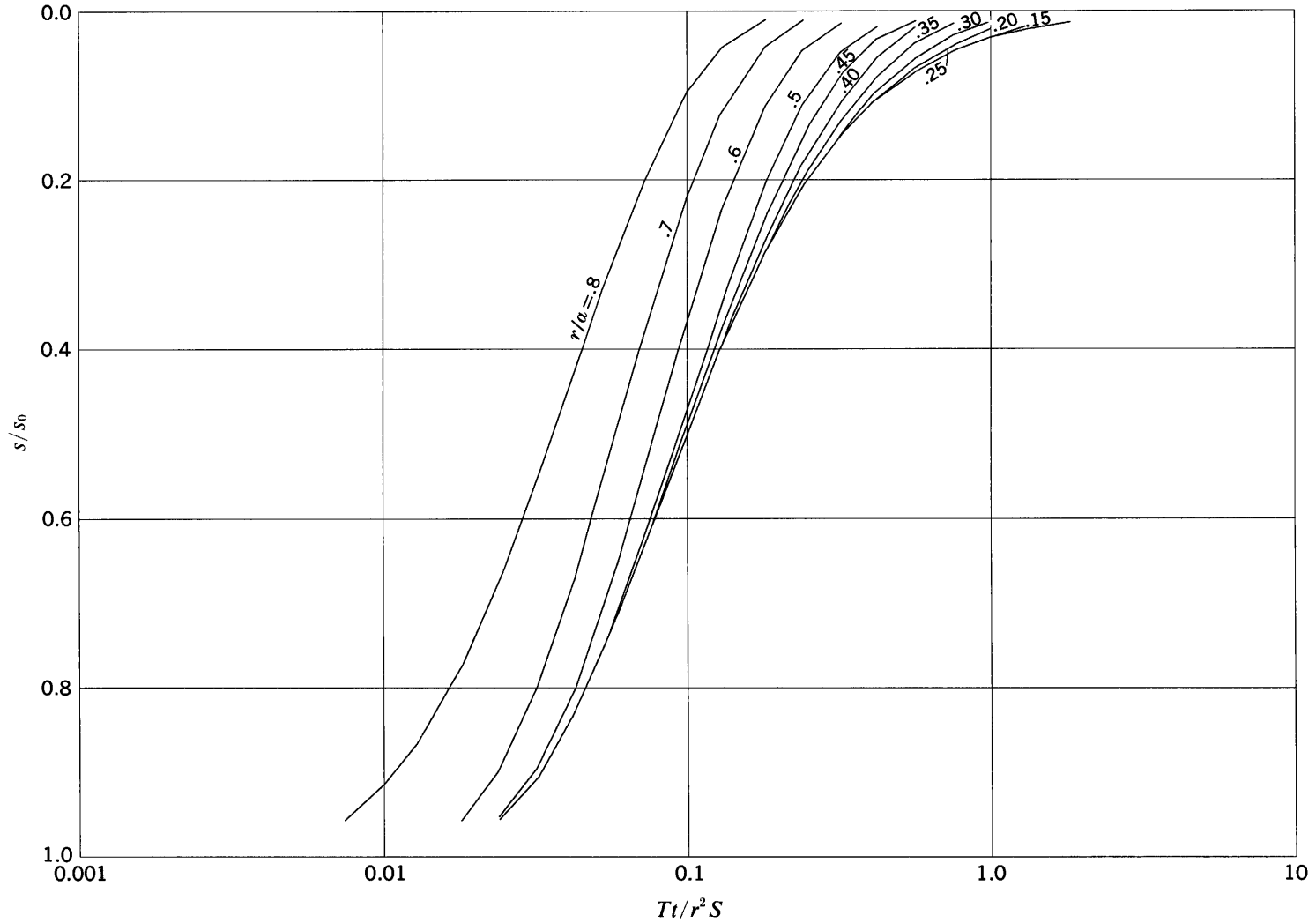

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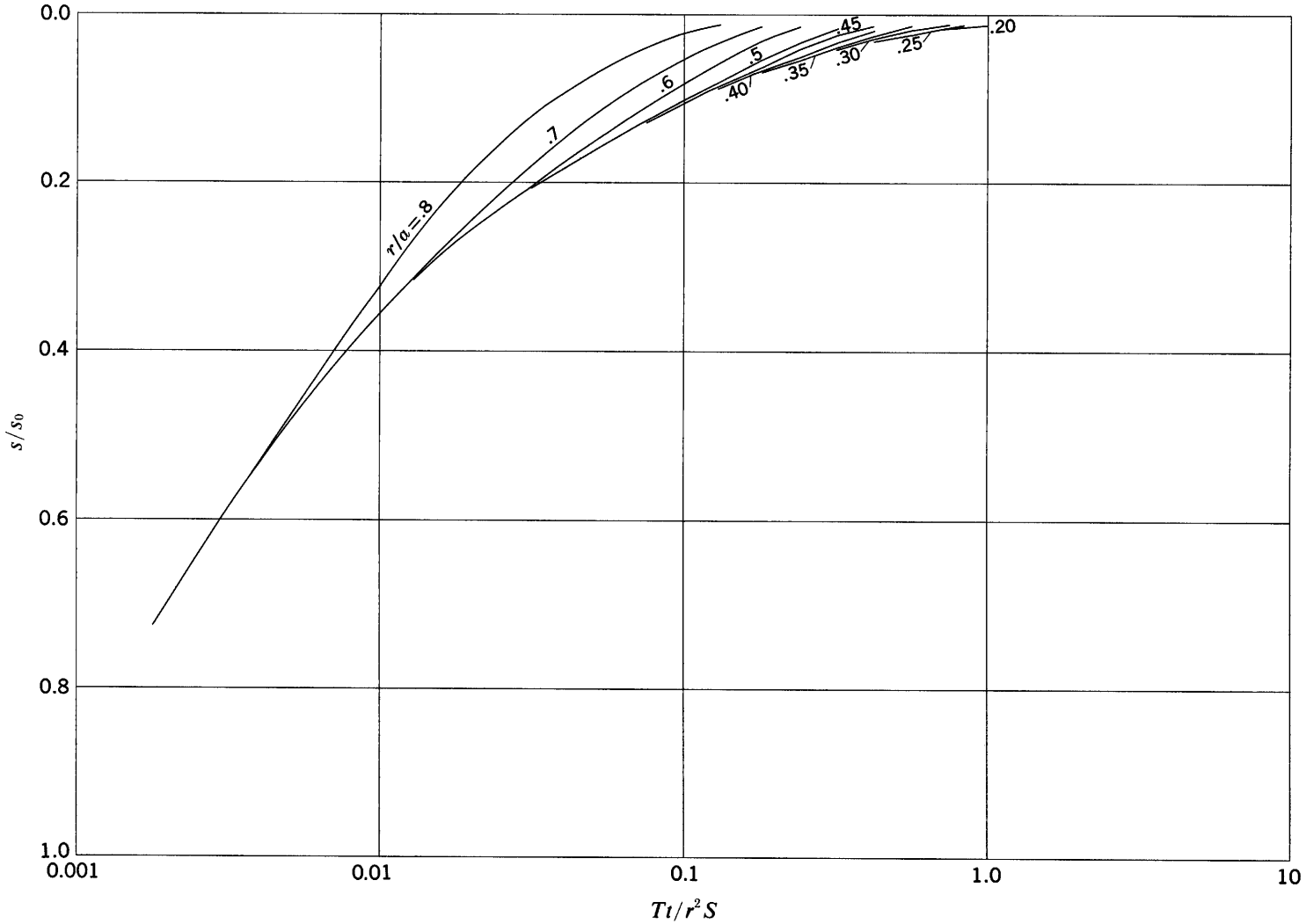
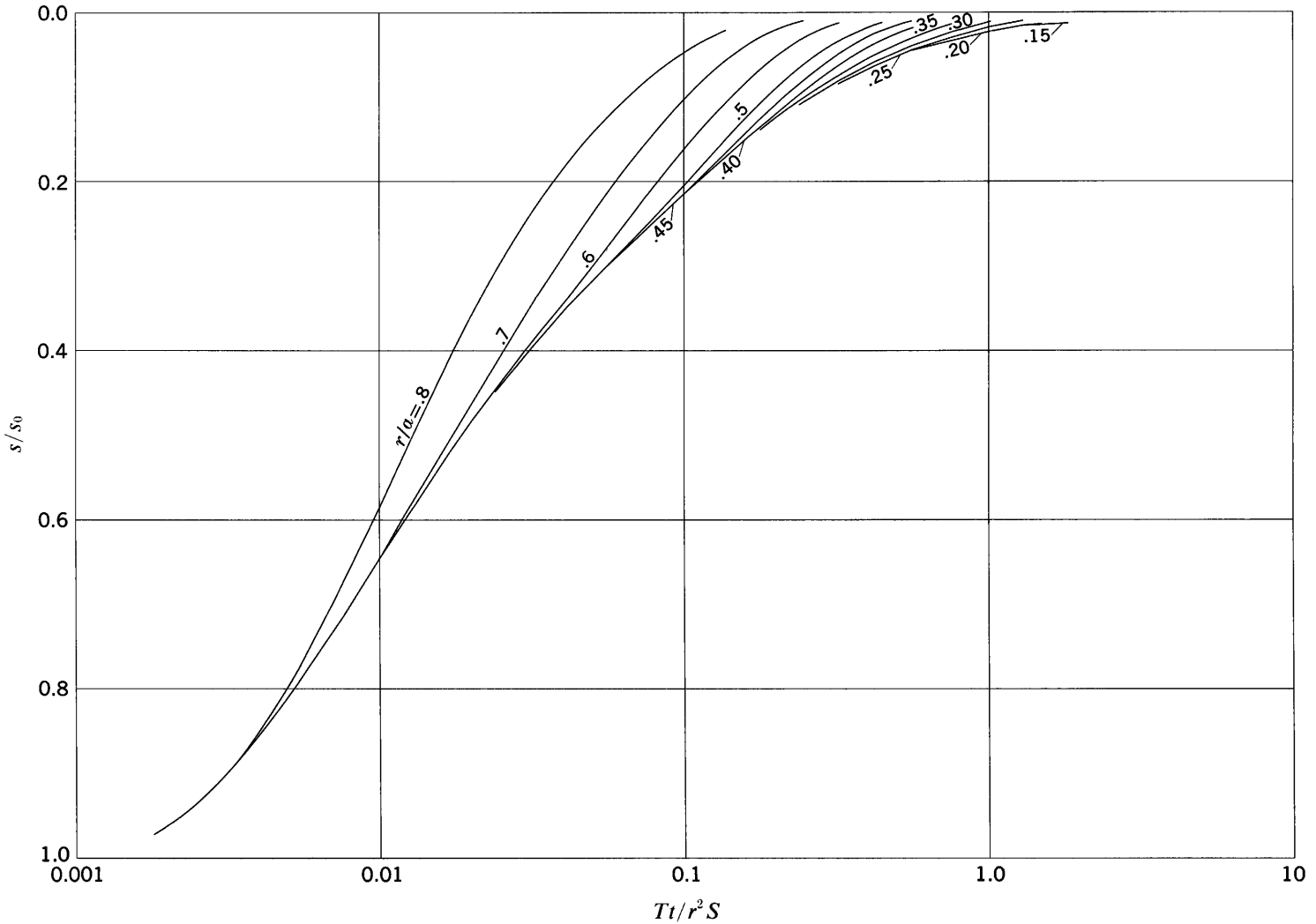


s/s_0 versus Tt/r^2S for $\theta_0 = 75°$; $\theta/\theta_0 = 0.05$



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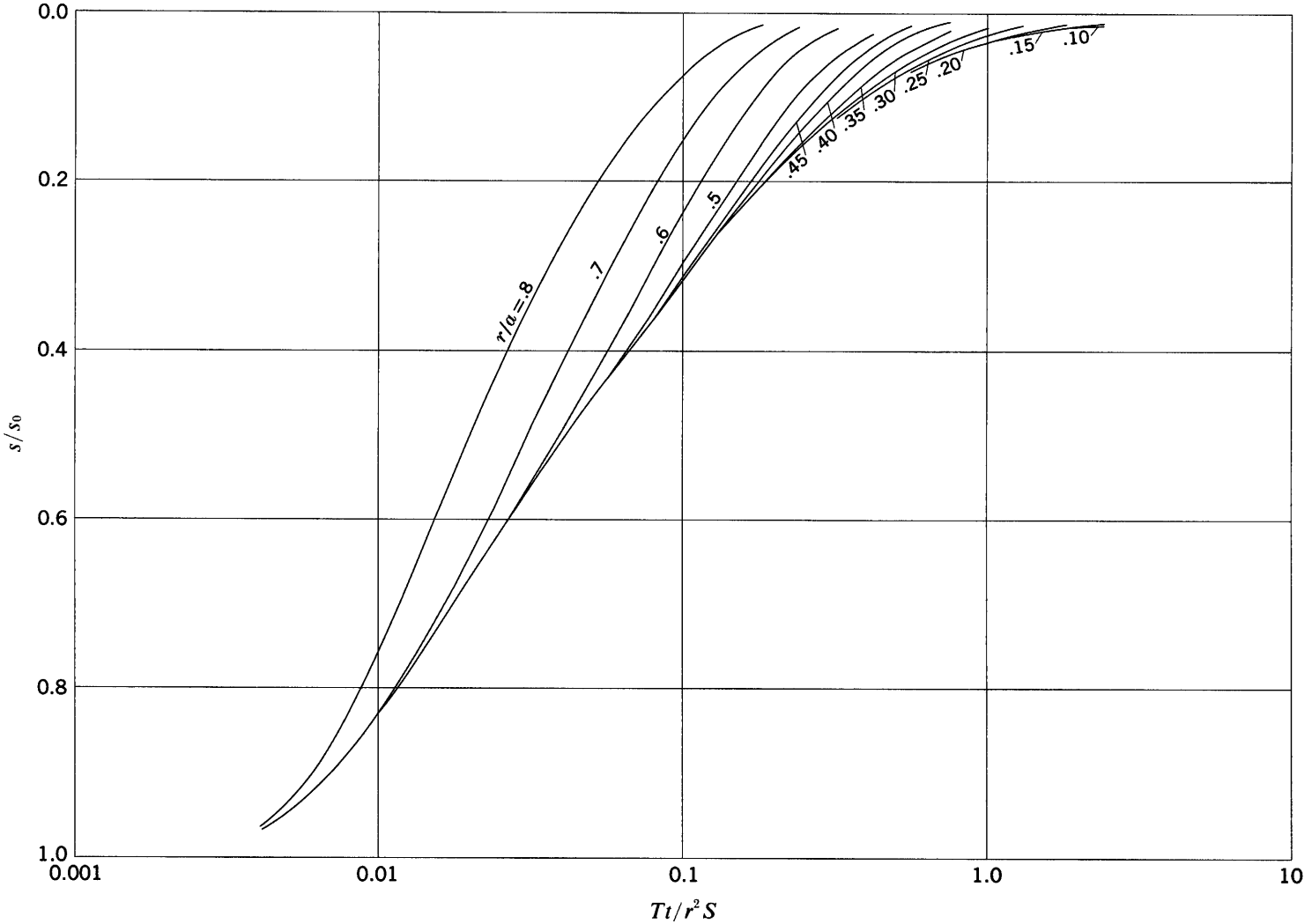

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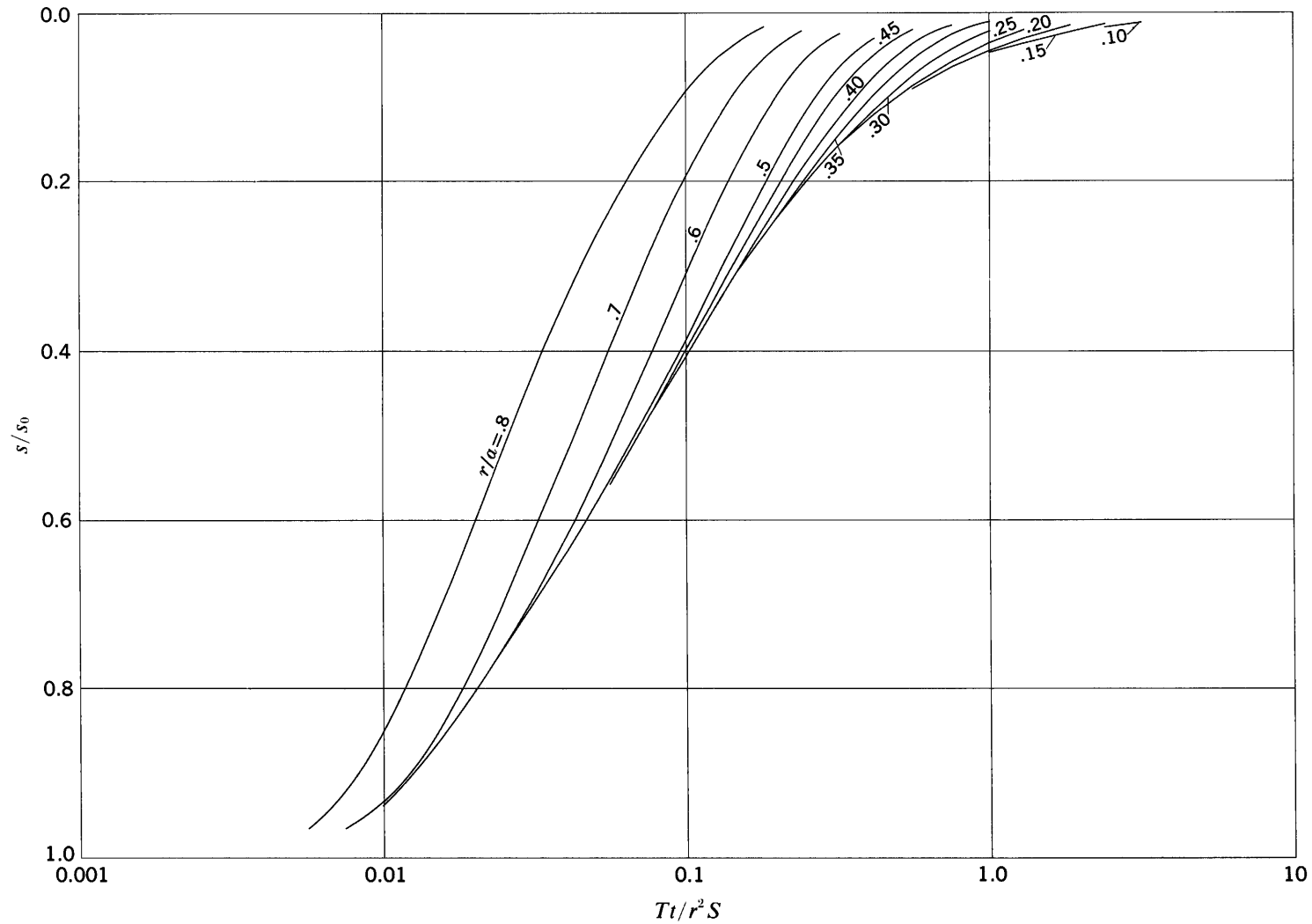
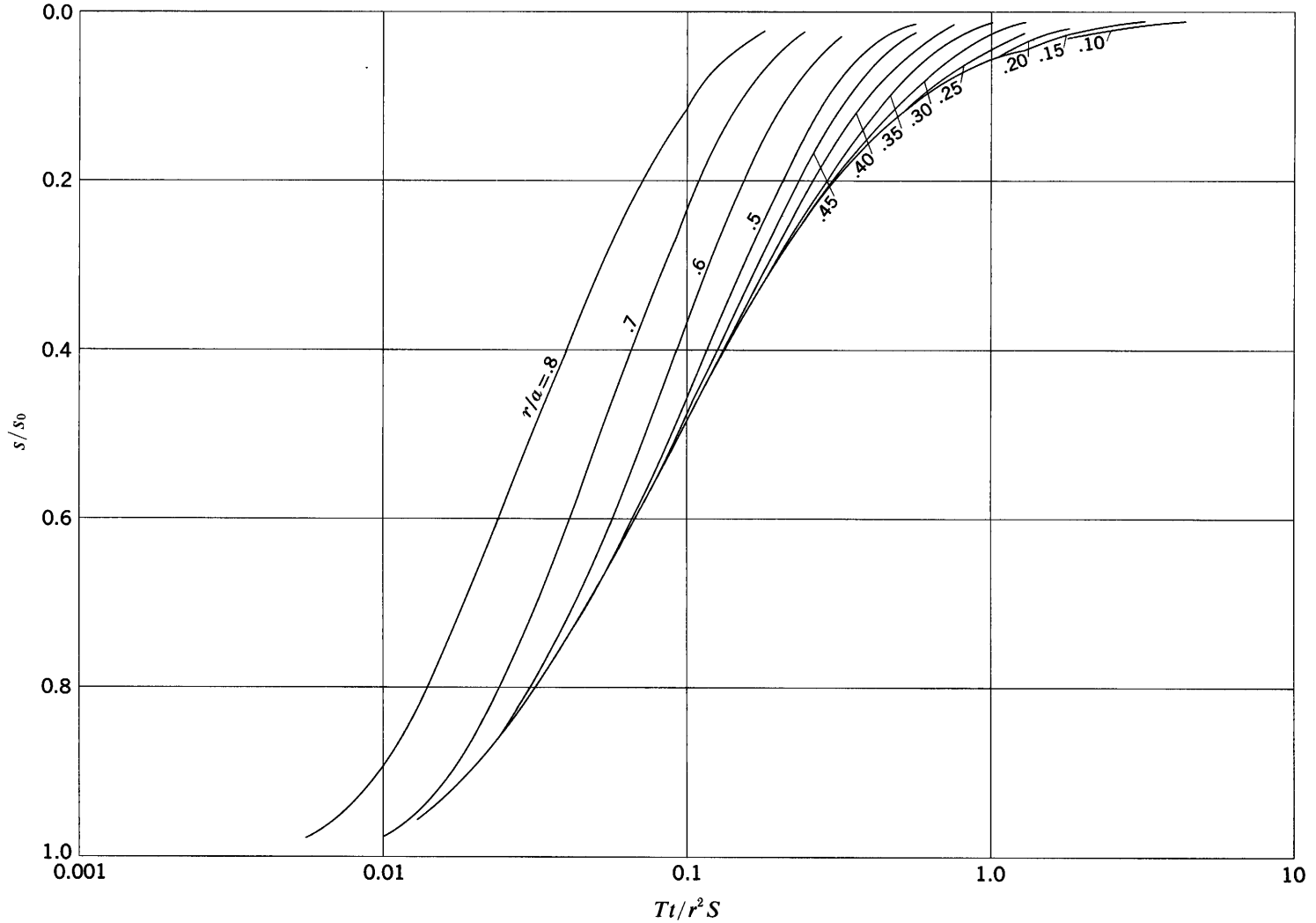


s/s_0 versus Tt/r^2S for $\theta_0 = 75°$; $\theta/\theta_0 = 0.20$



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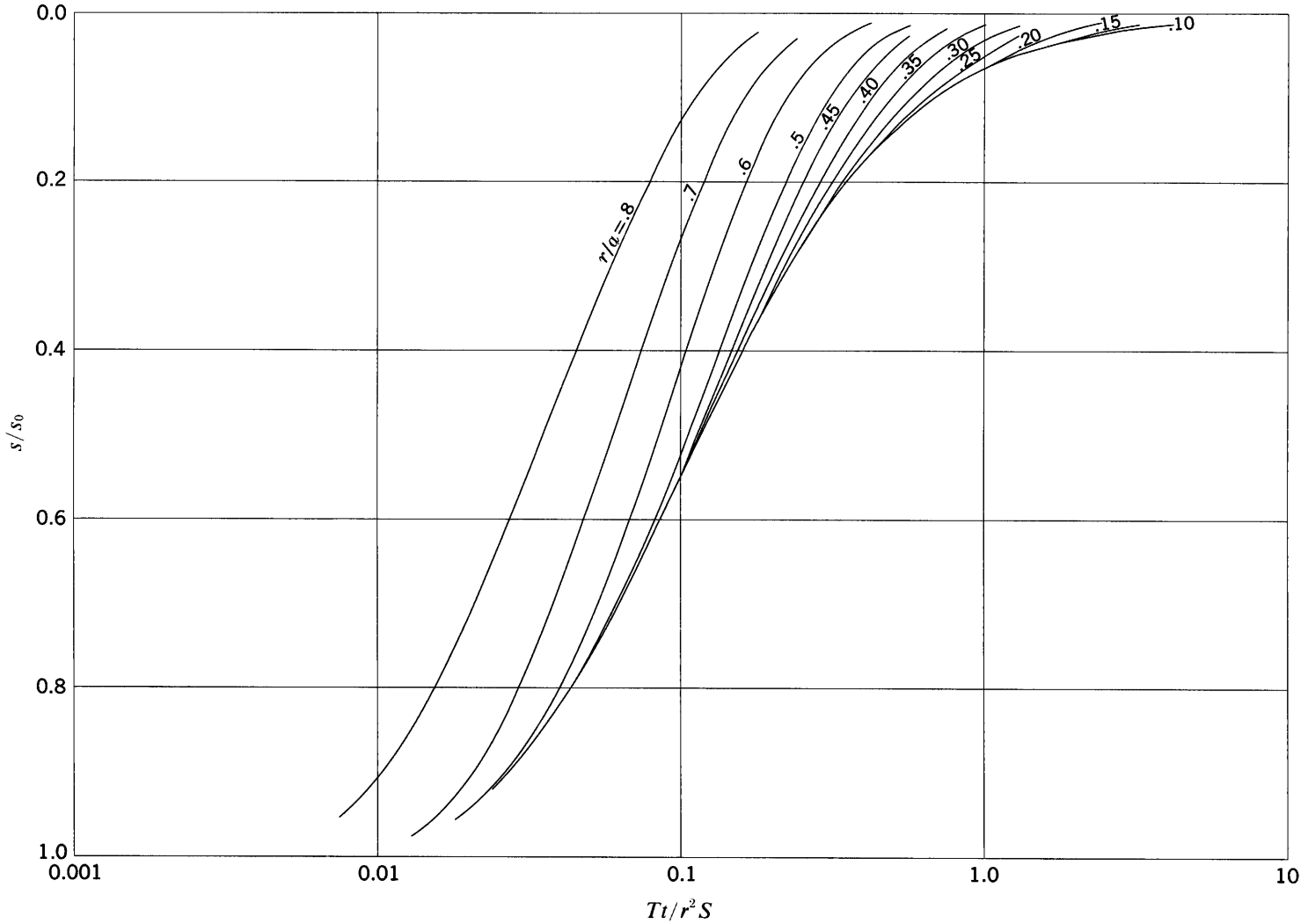

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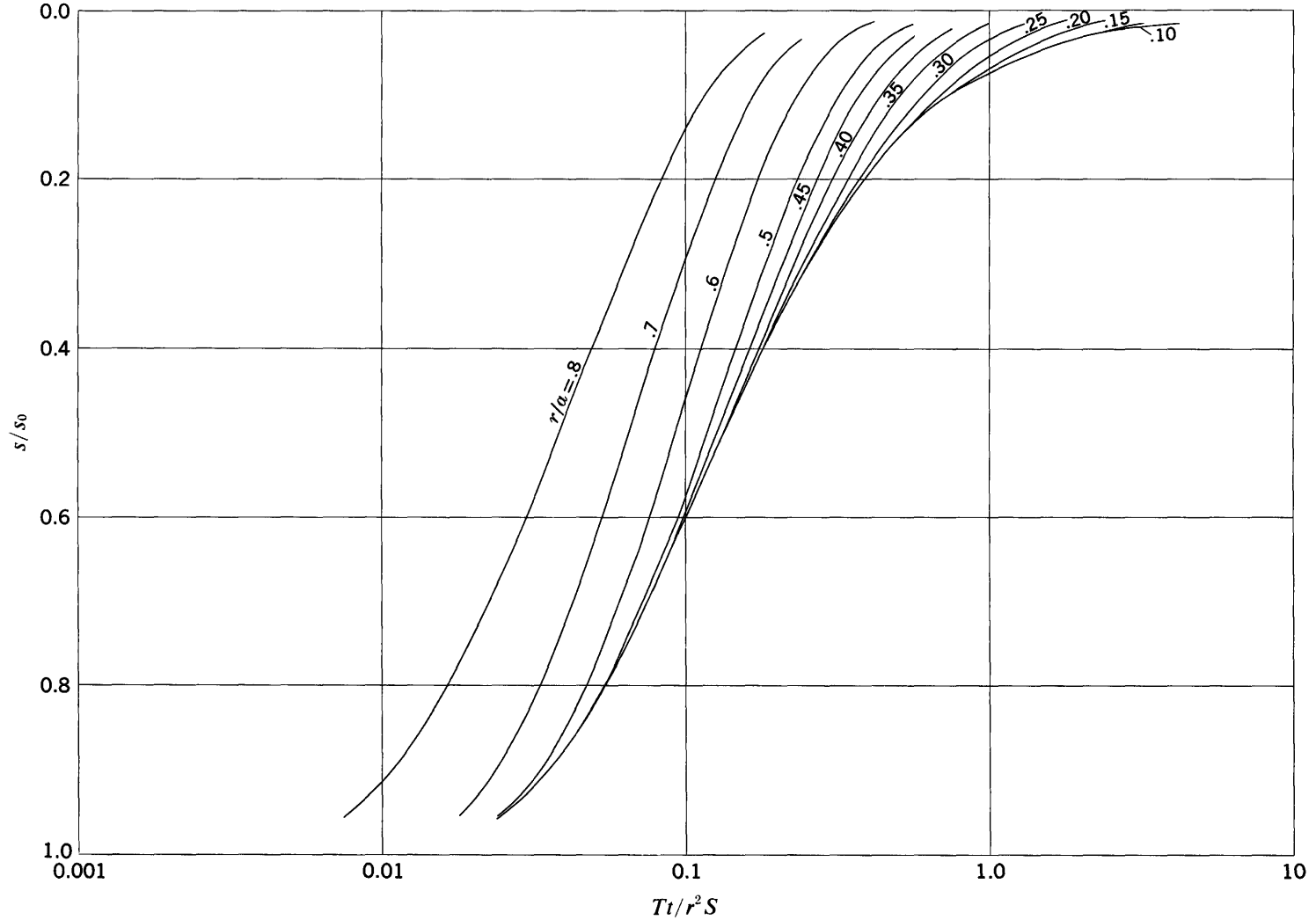

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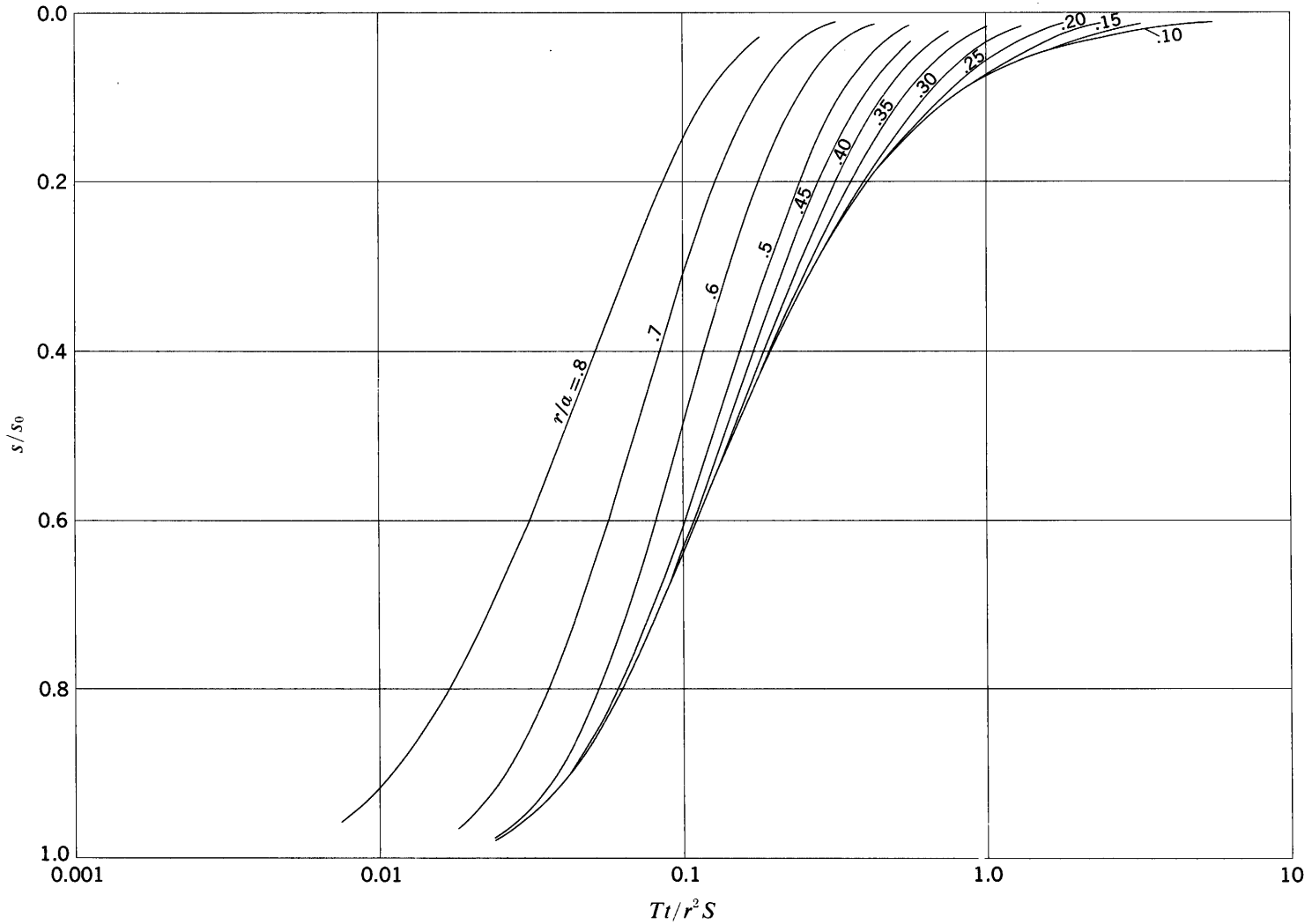

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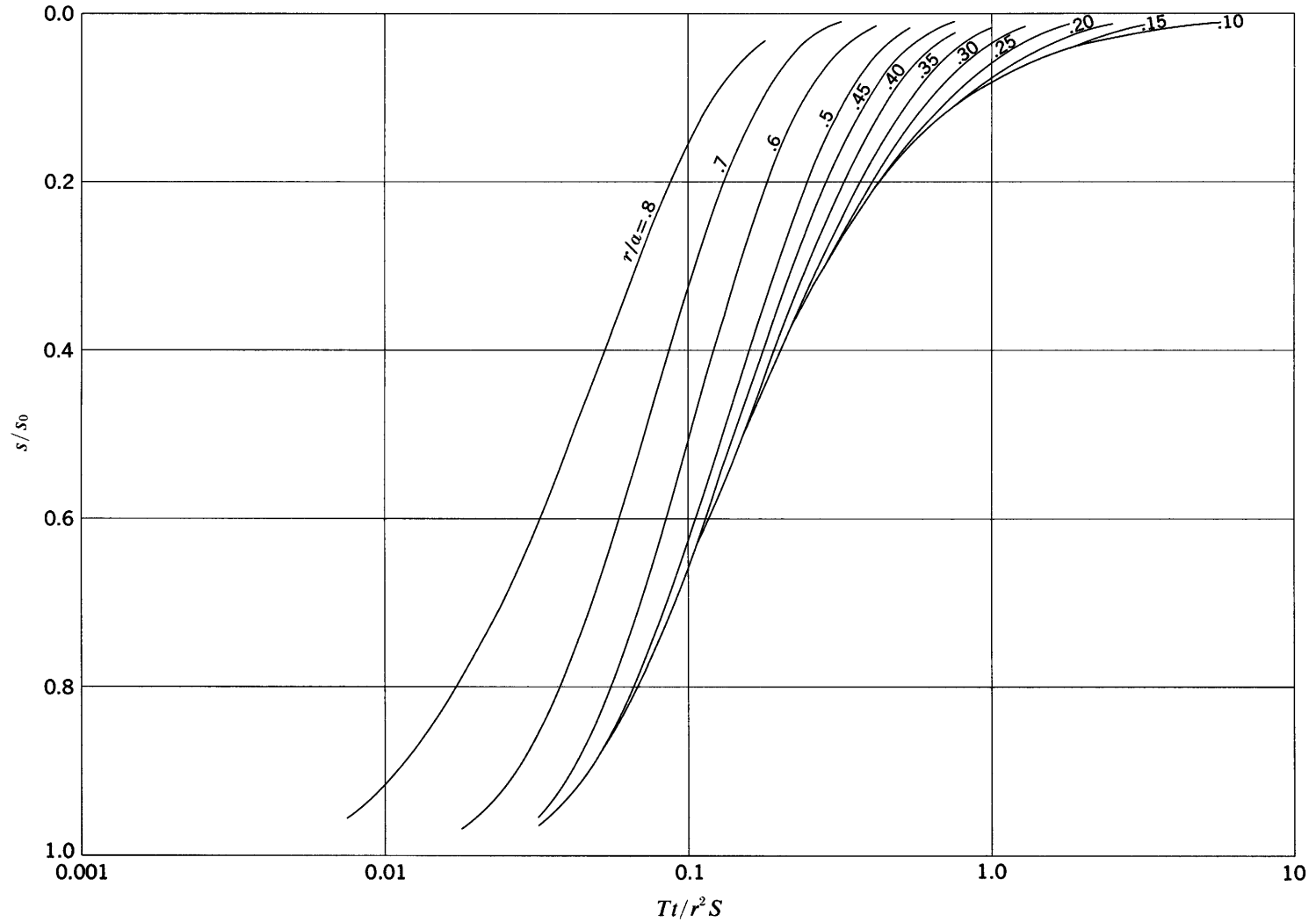

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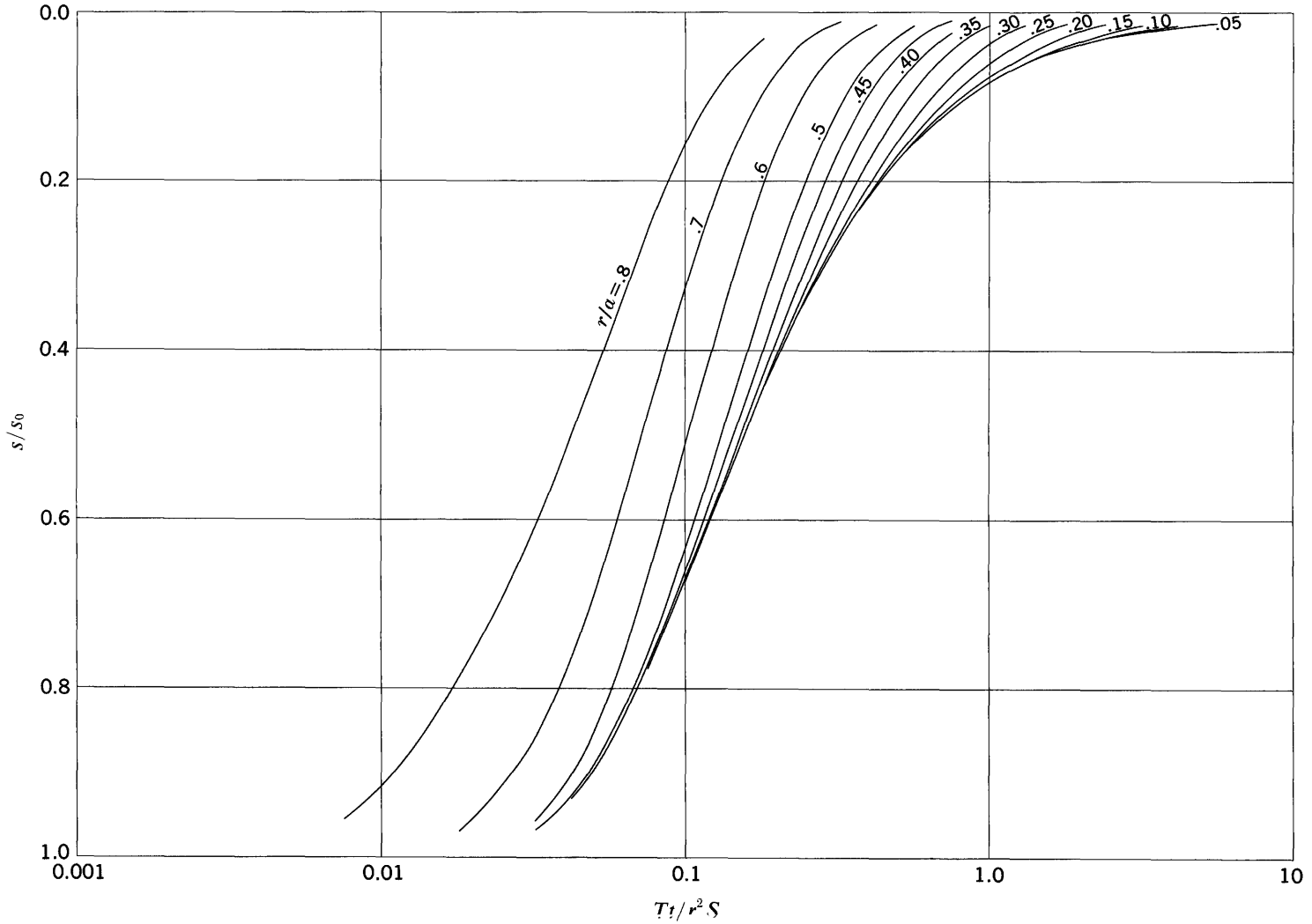
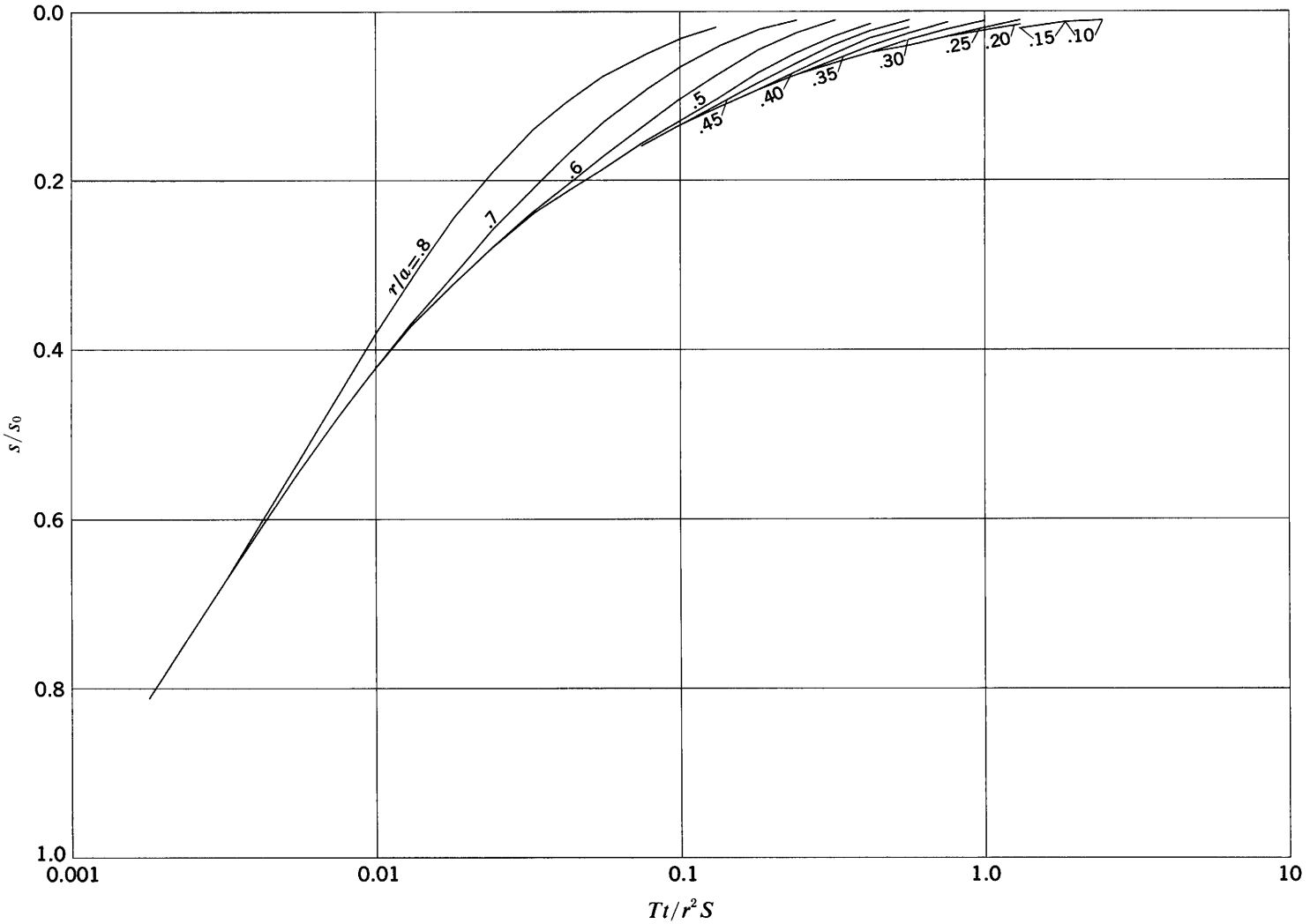
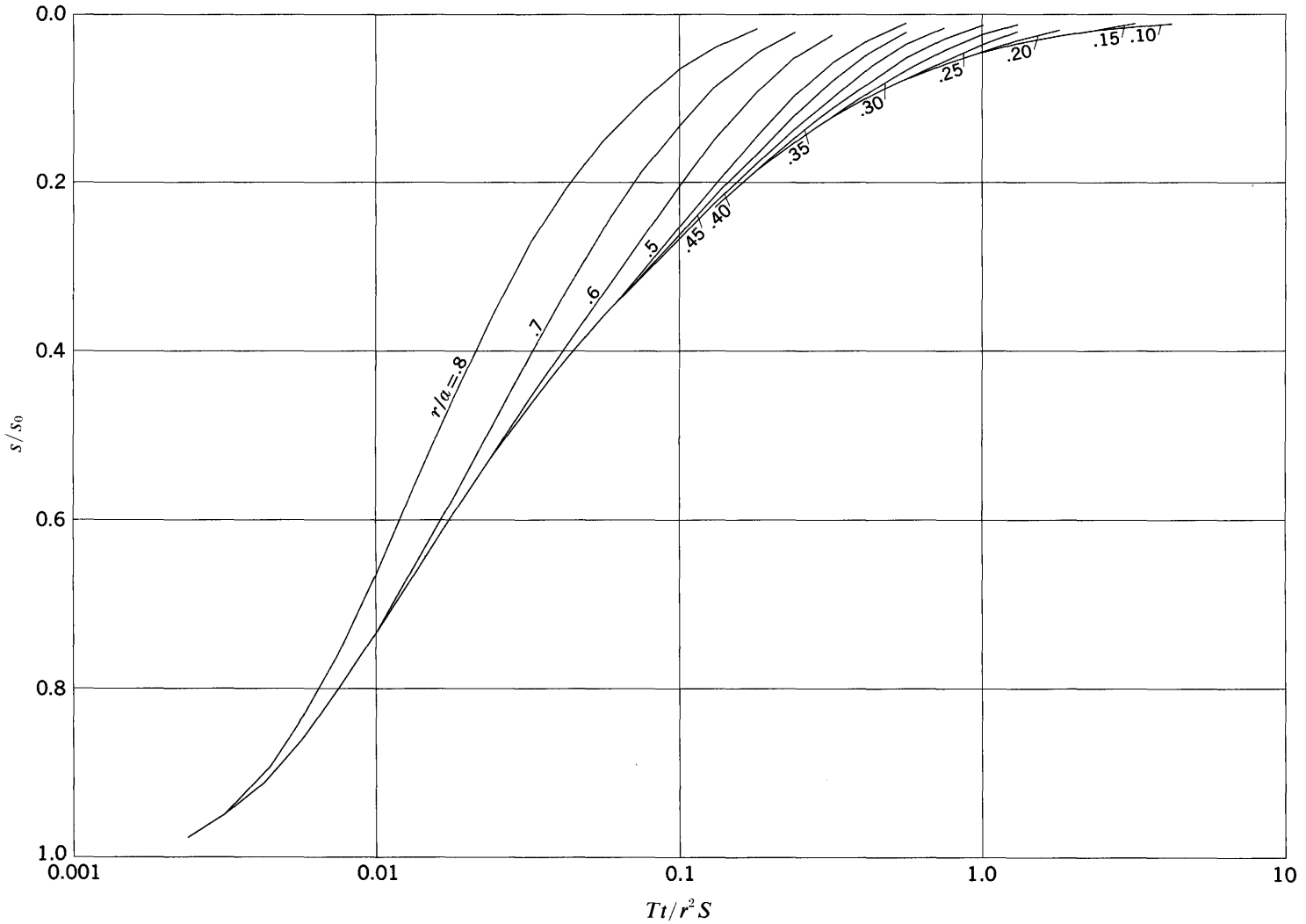


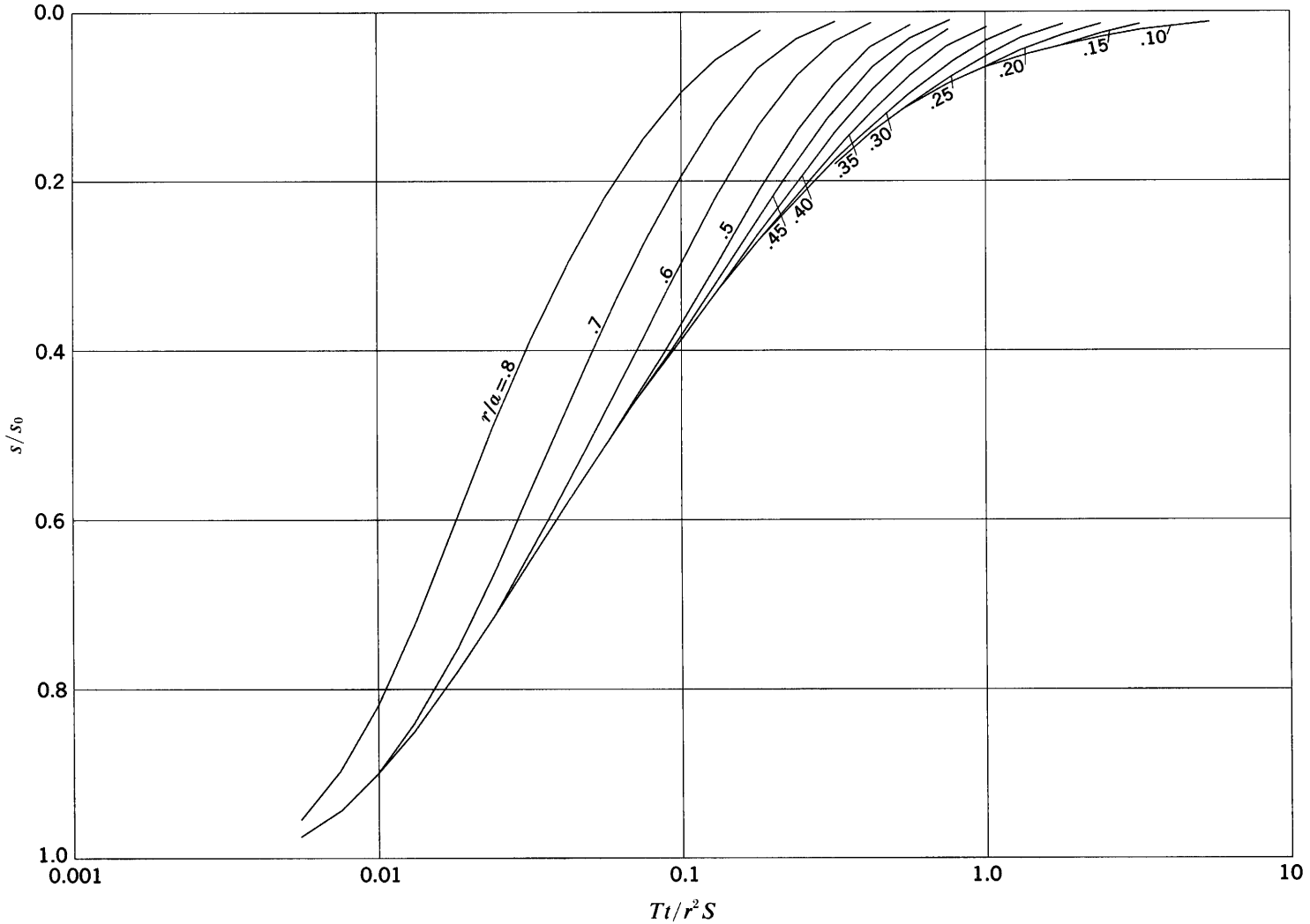
s/s_0 versus Tt/r^2S for $\theta_0 = 75°$; $\theta/\theta_0 = 0.50$



s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.05$



s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.10$



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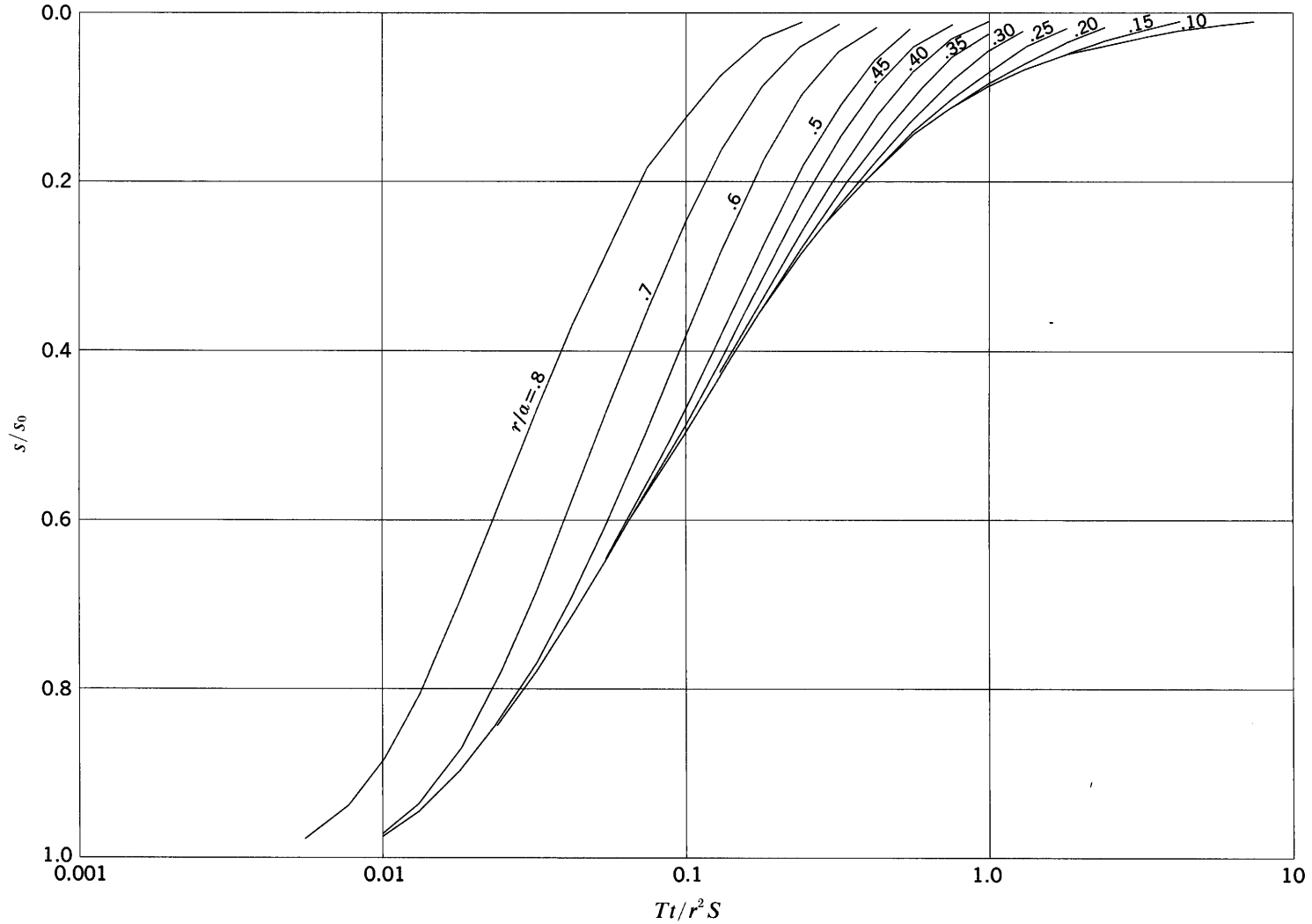
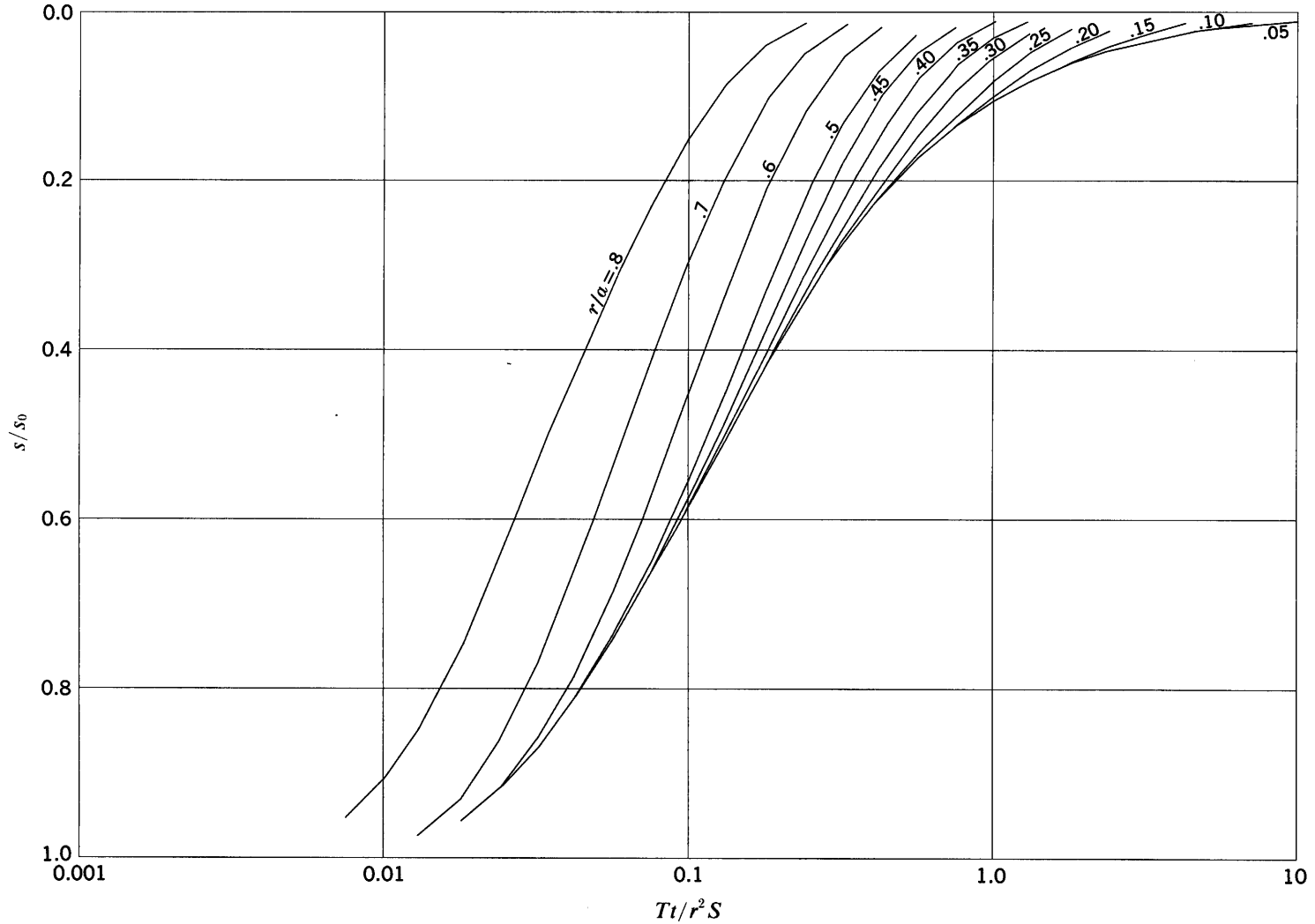
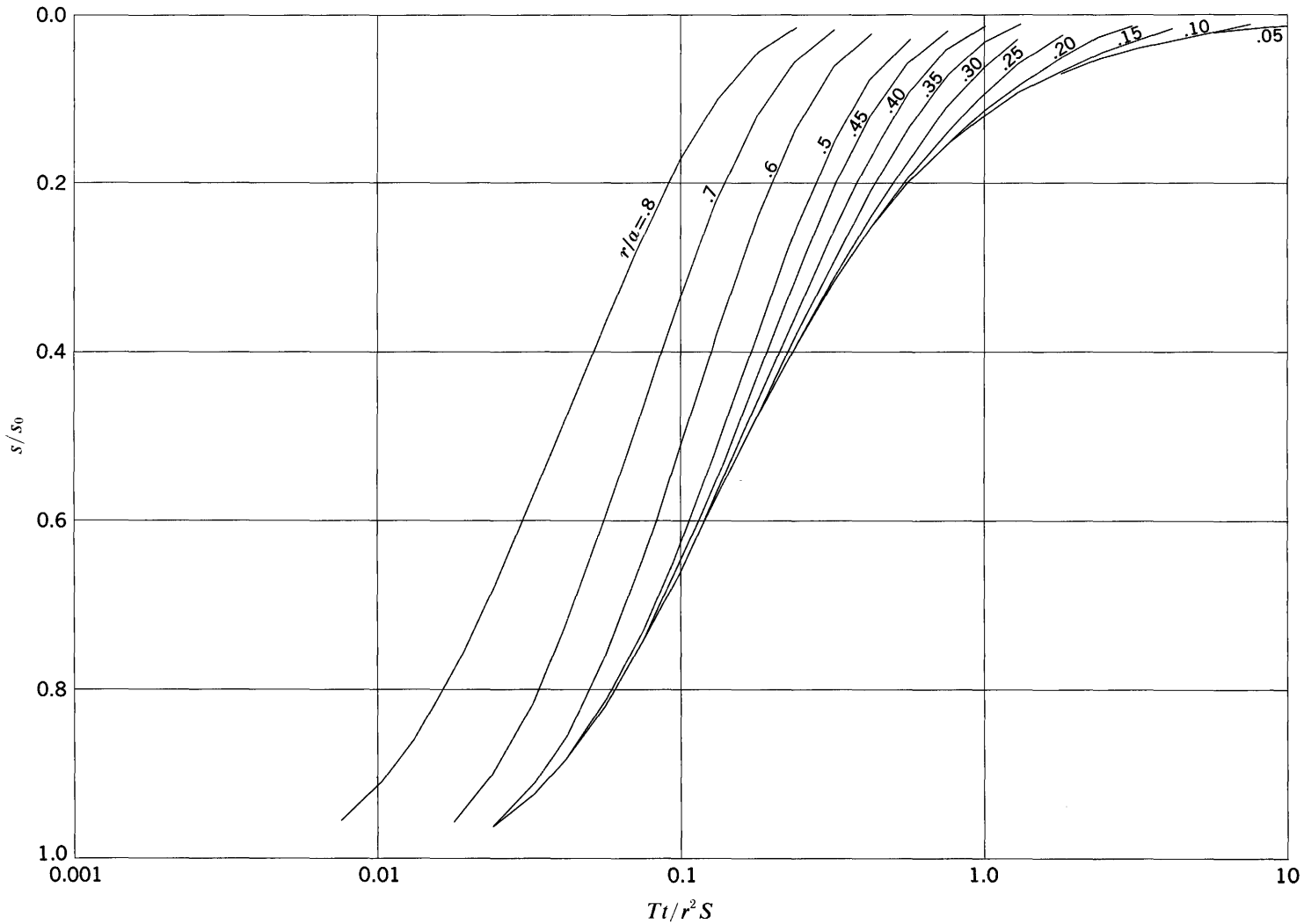


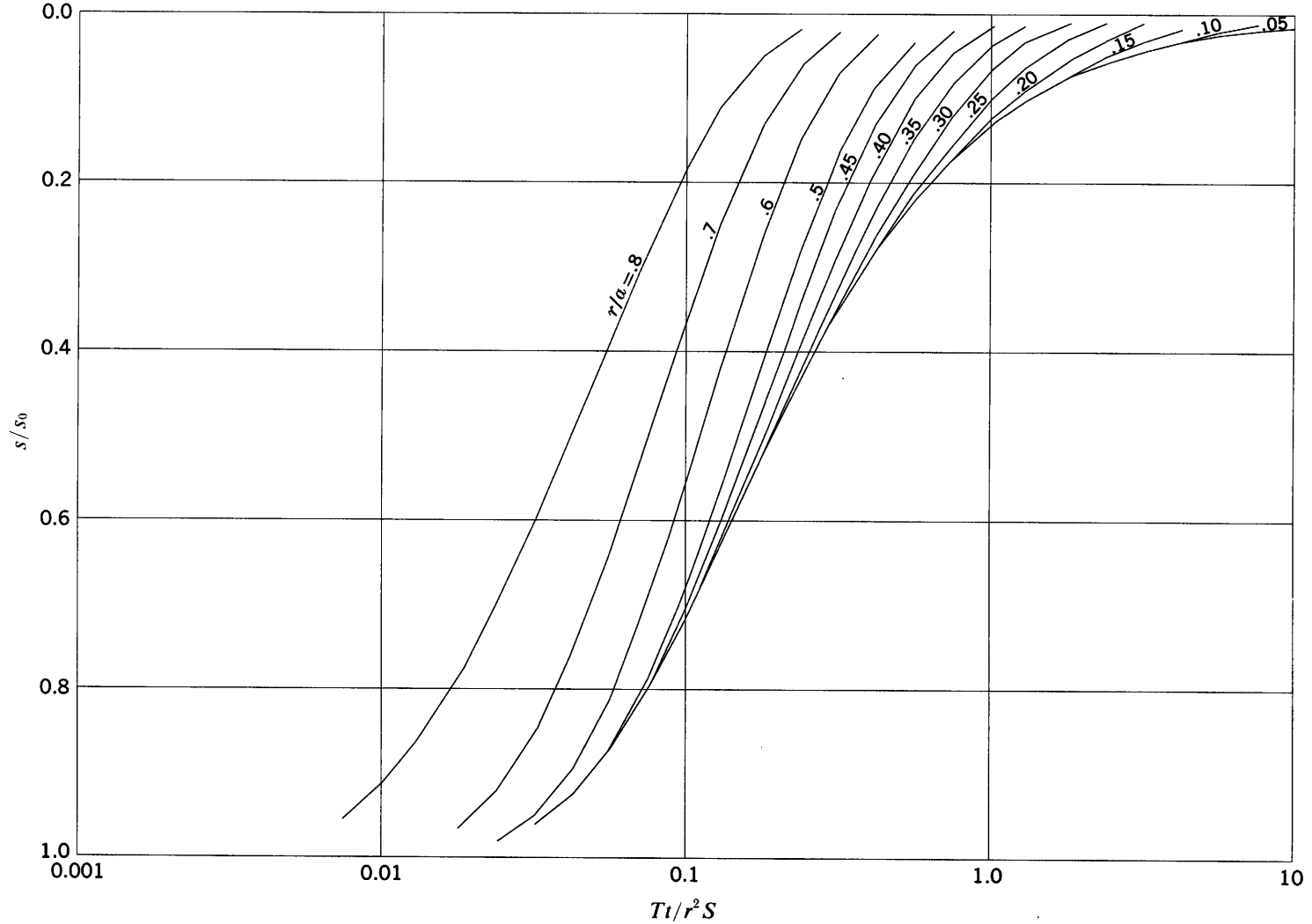
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.20$



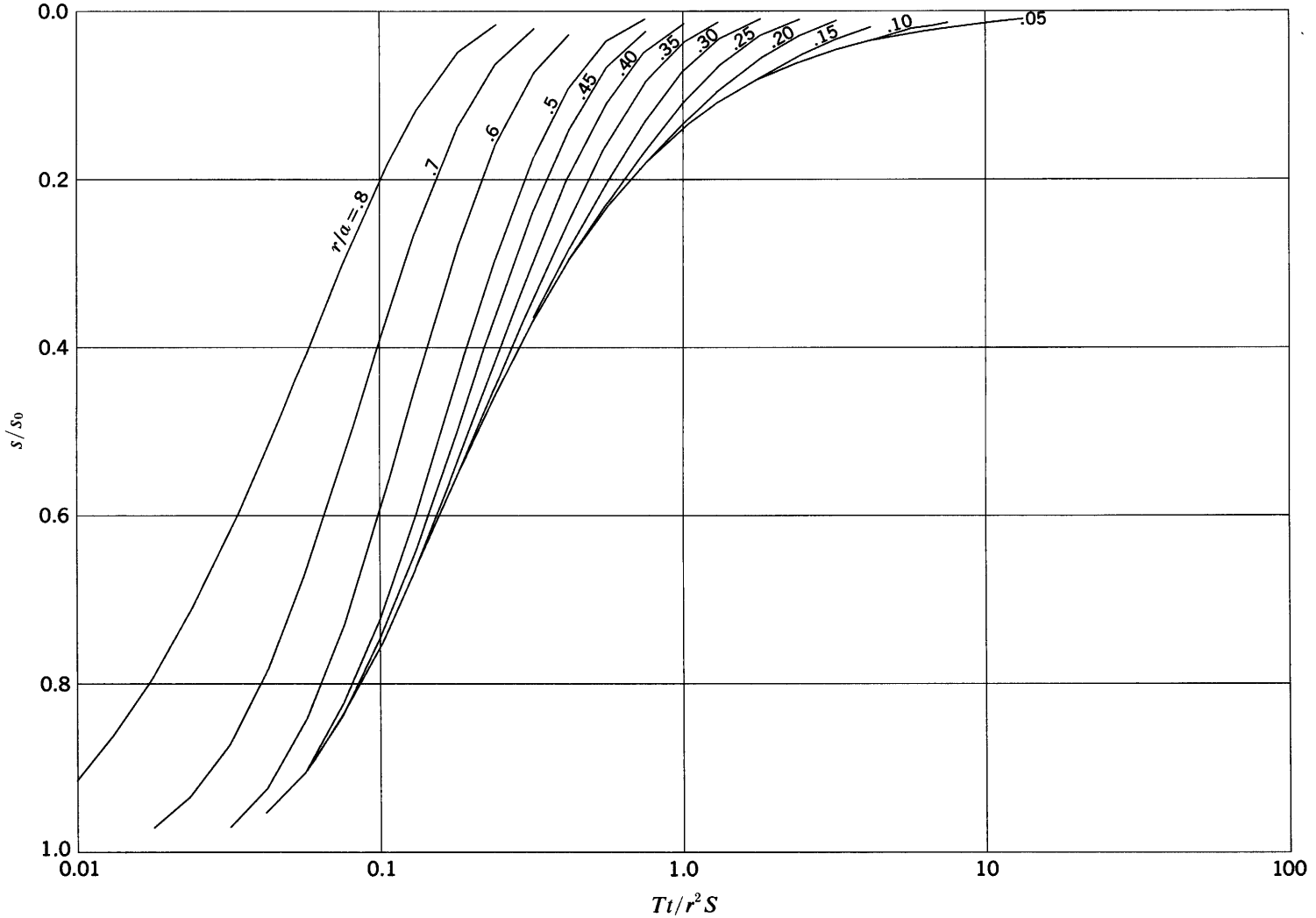
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.25$



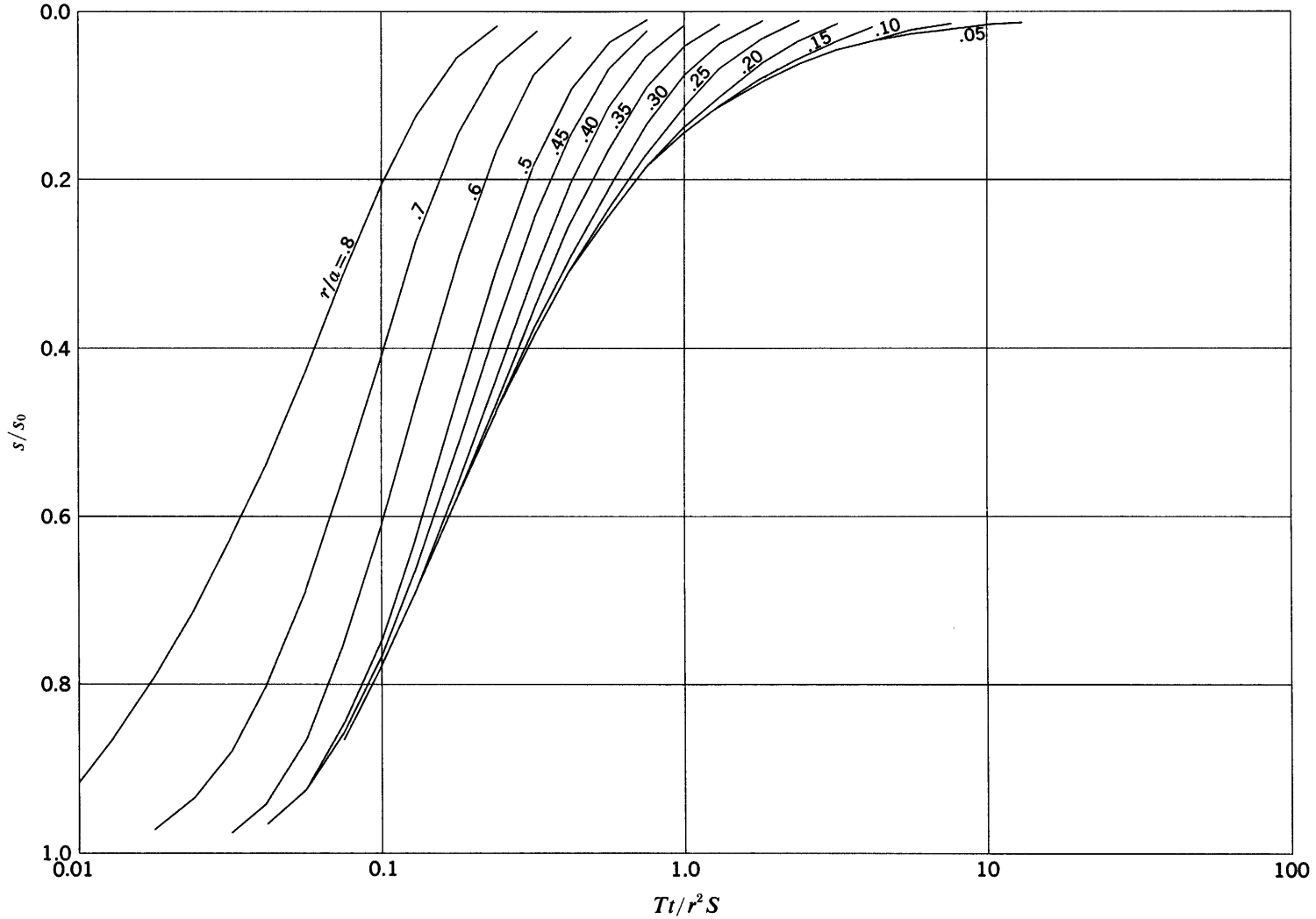
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.30$



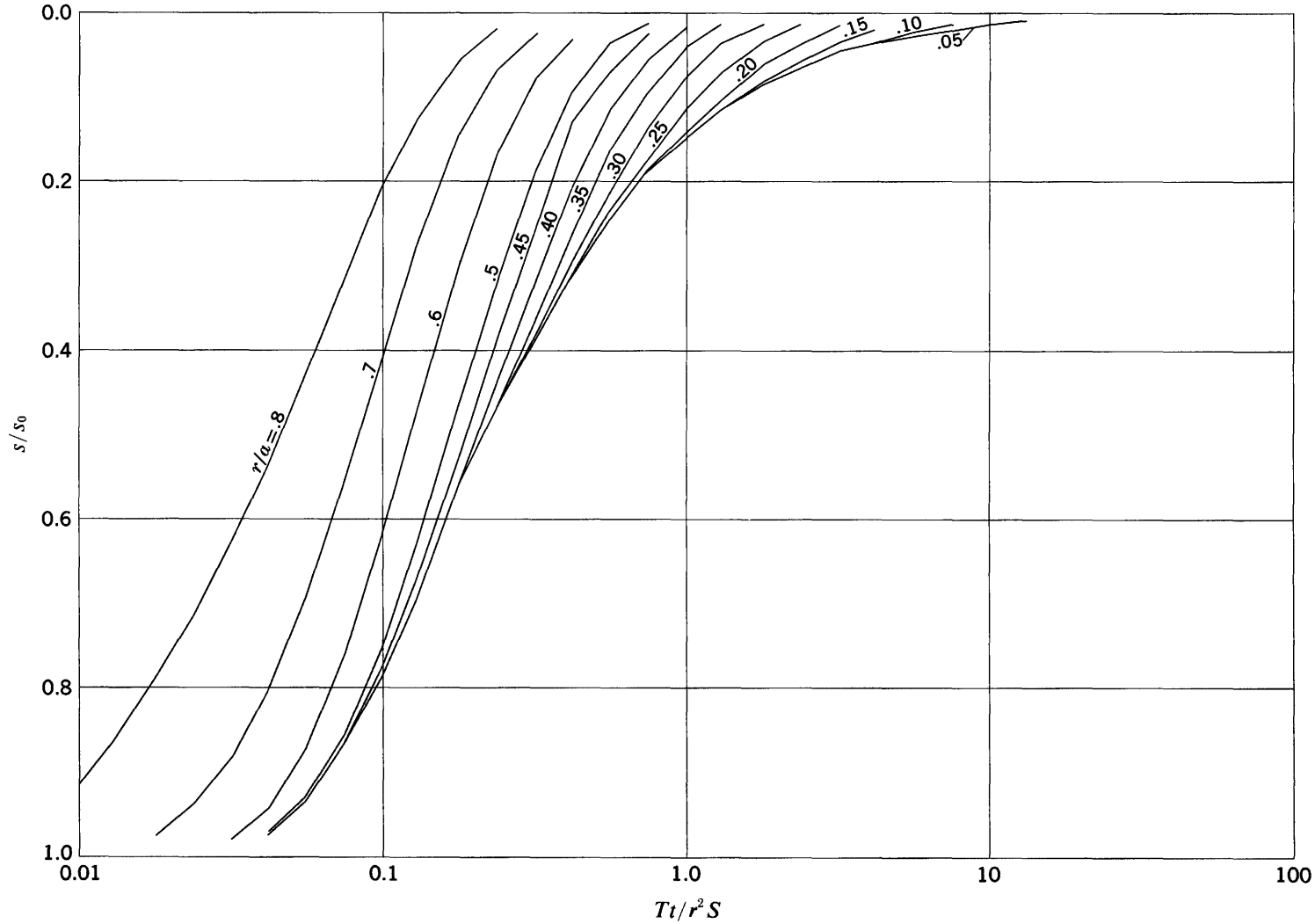
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.35$



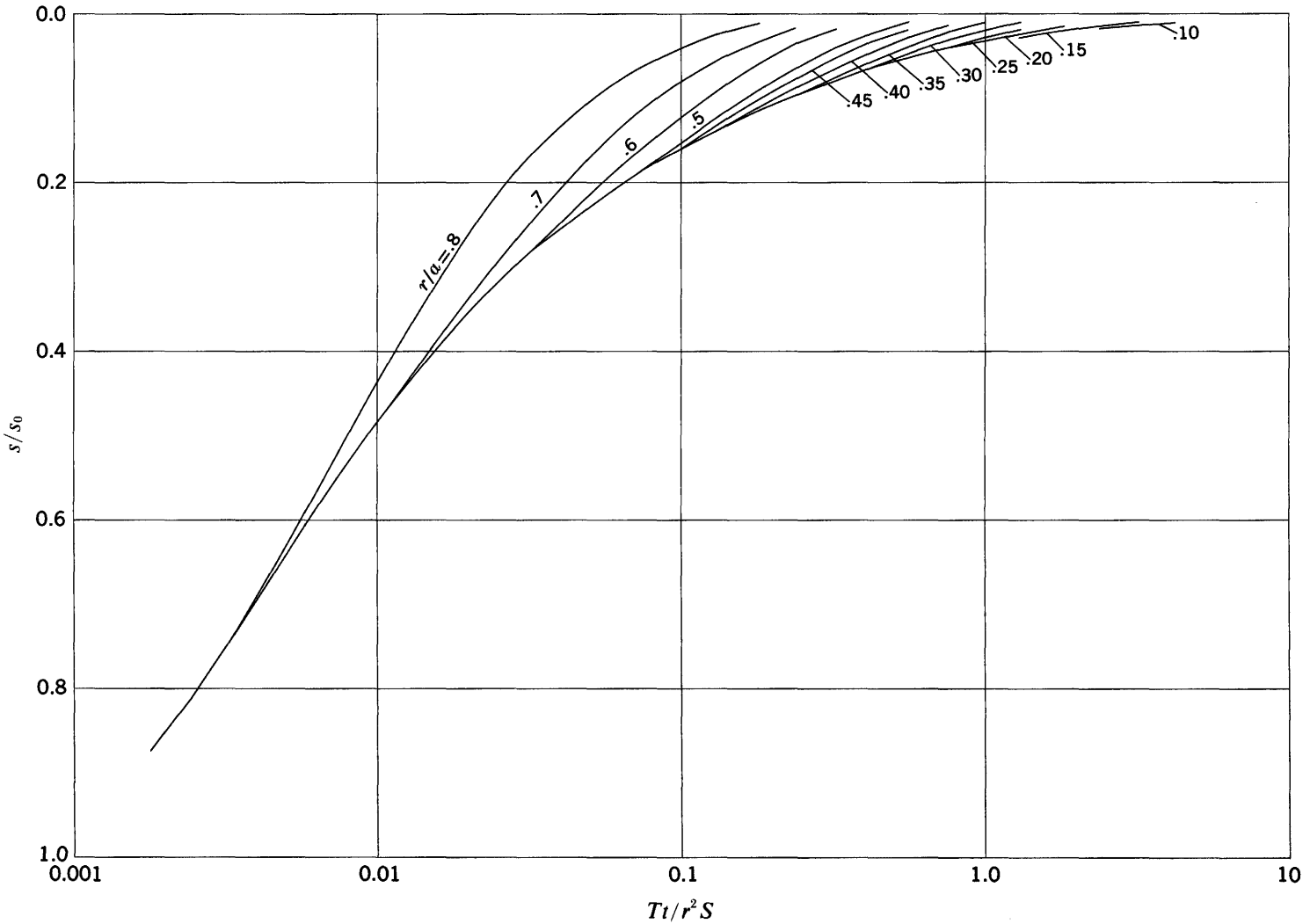
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.40$



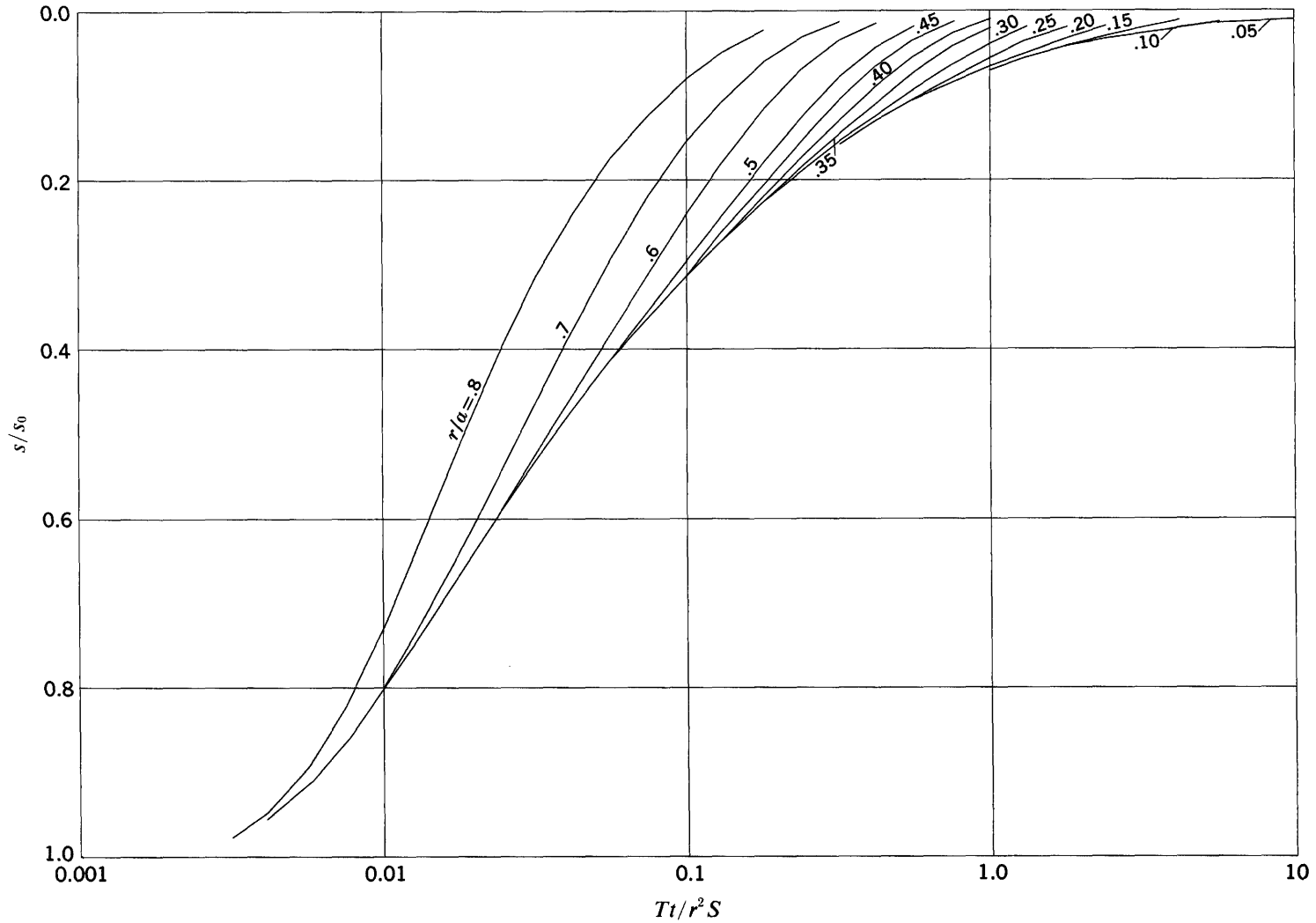
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.45$



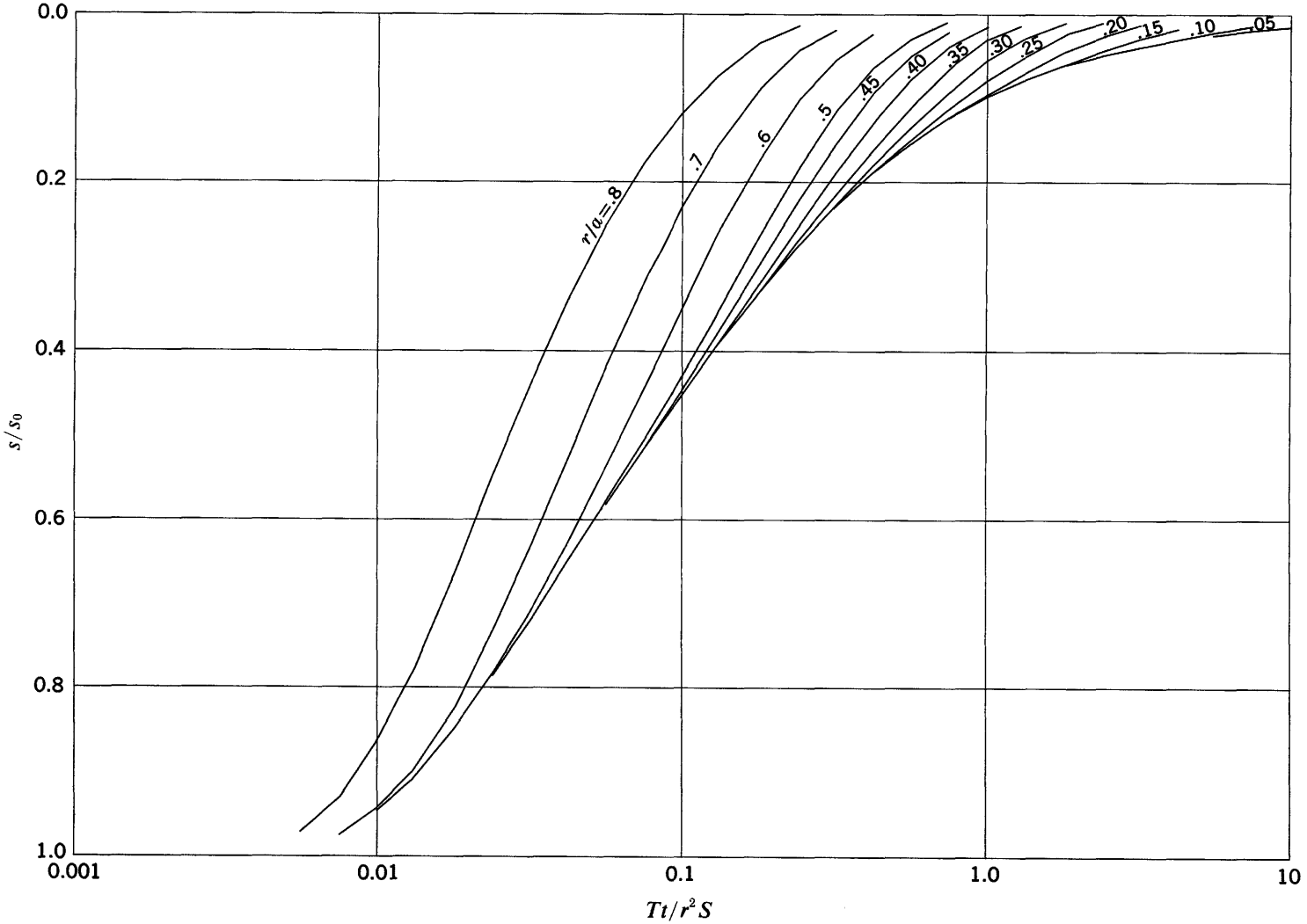
s/s_0 versus Tt/r^2S for $\theta_0 = 90°$; $\theta/\theta_0 = 0.50$



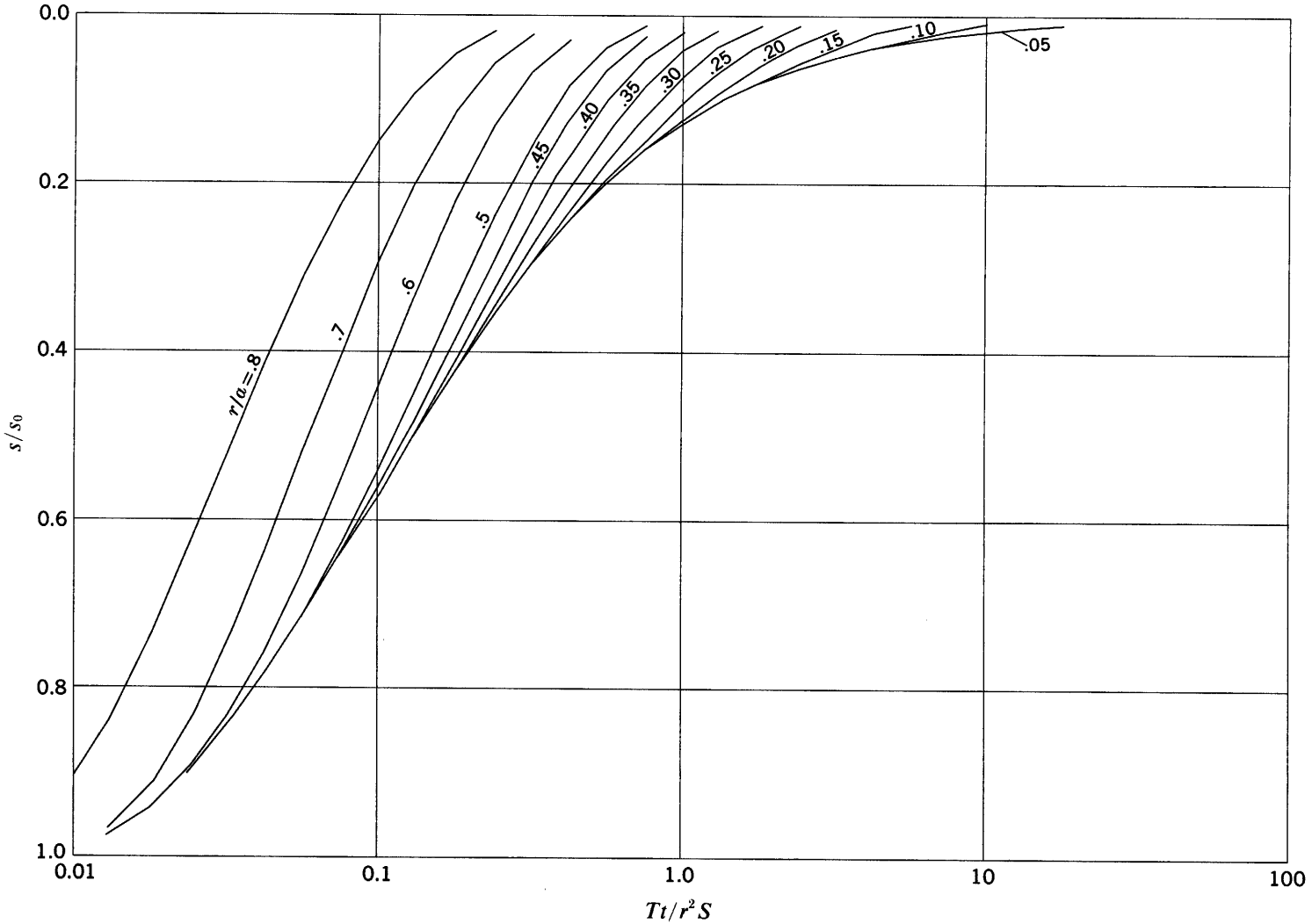
s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.05$



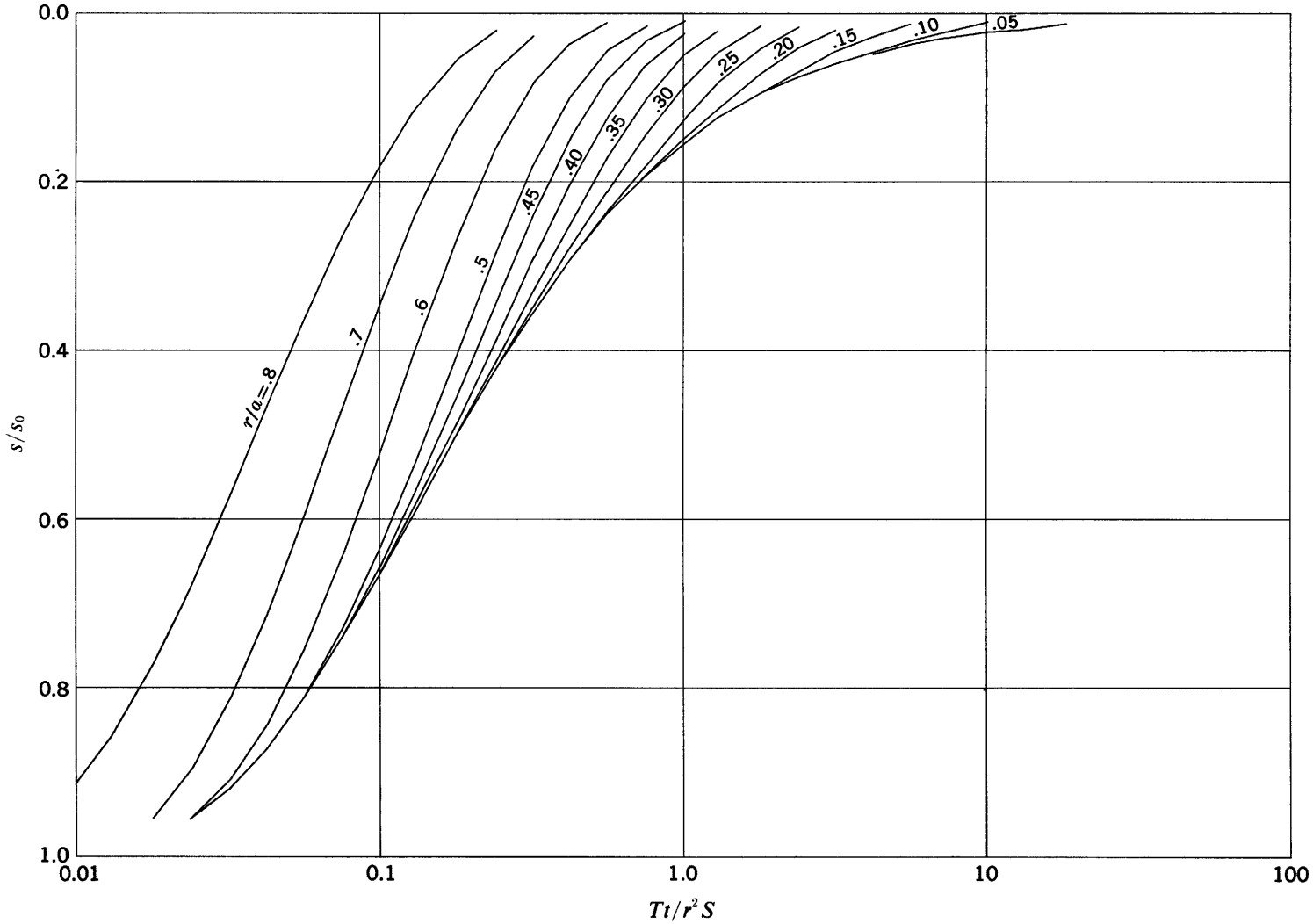
s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.10$



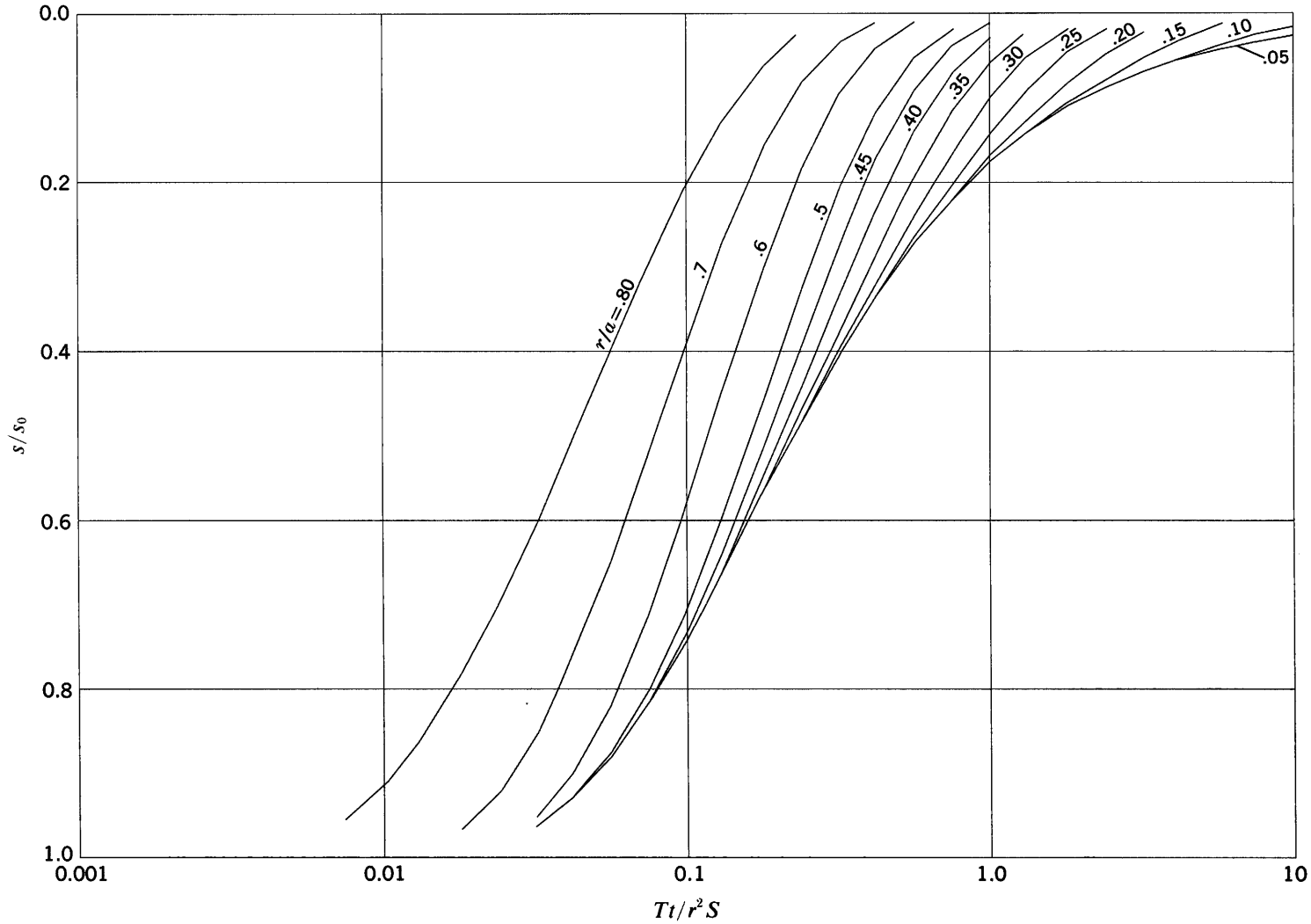
s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.15$



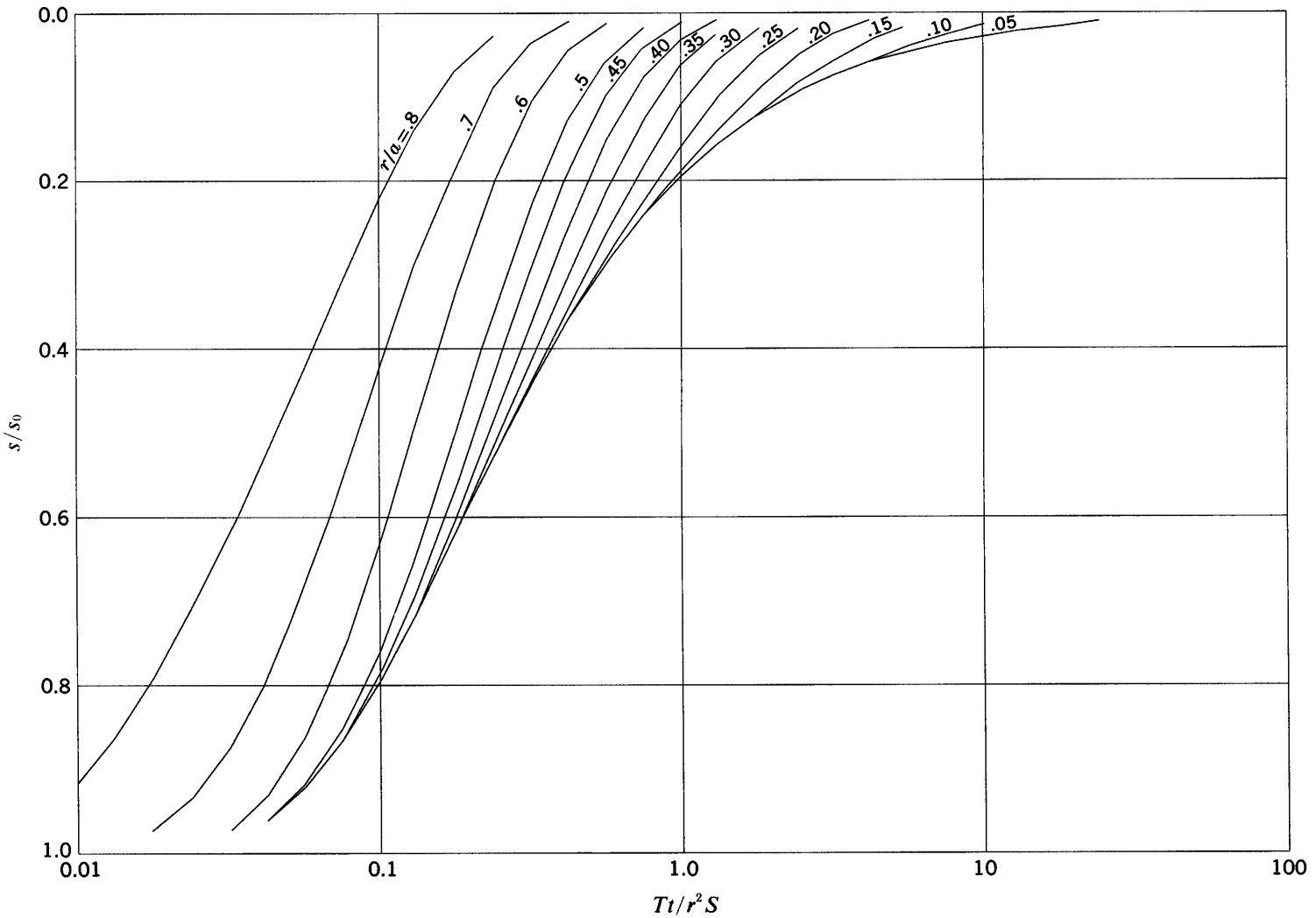
s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.20$



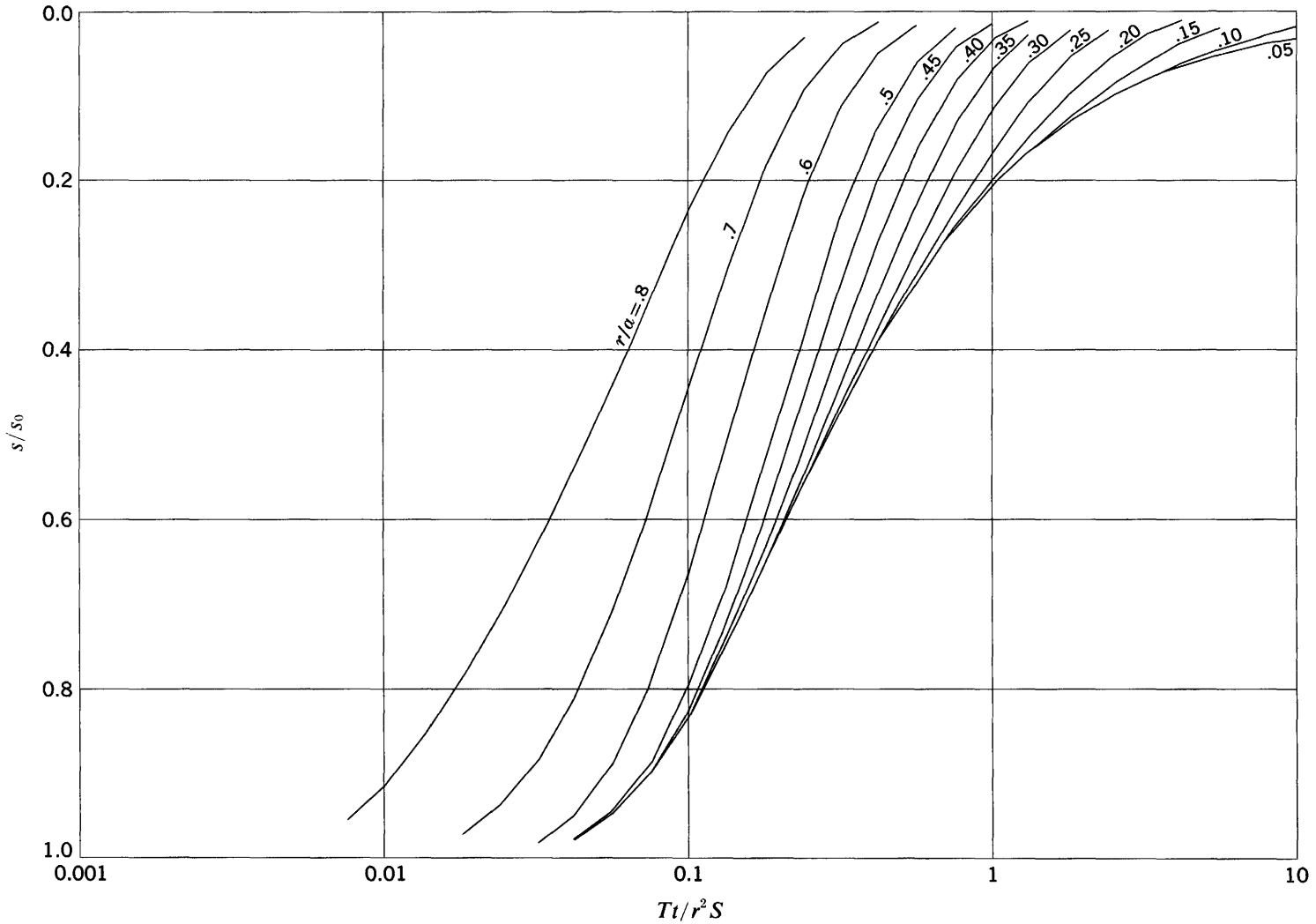
s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.25$



s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.30$



s/s_0 versus Tt/r^2S for $\theta_0 = 105°$; $\theta/\theta_0 = 0.35$



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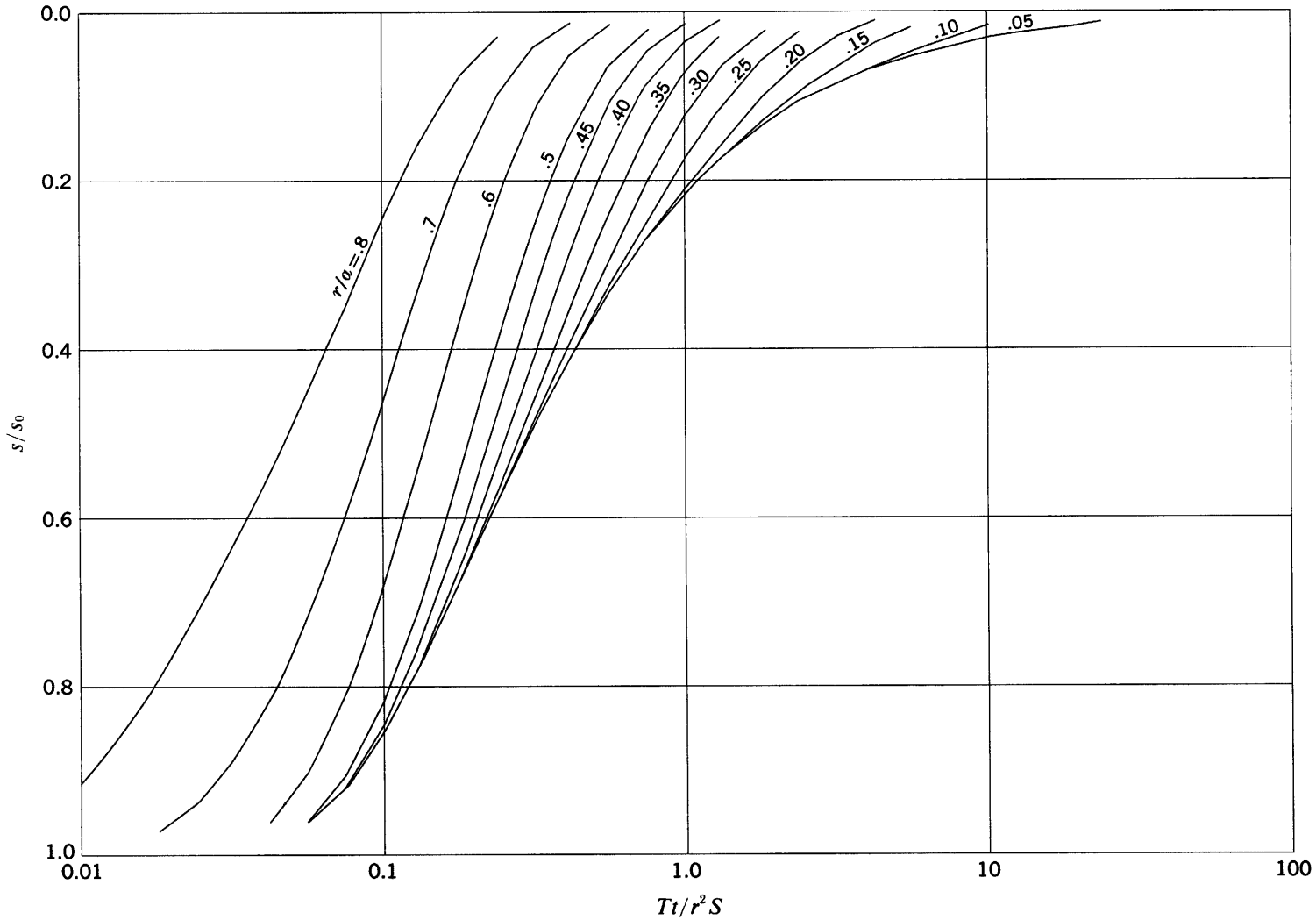

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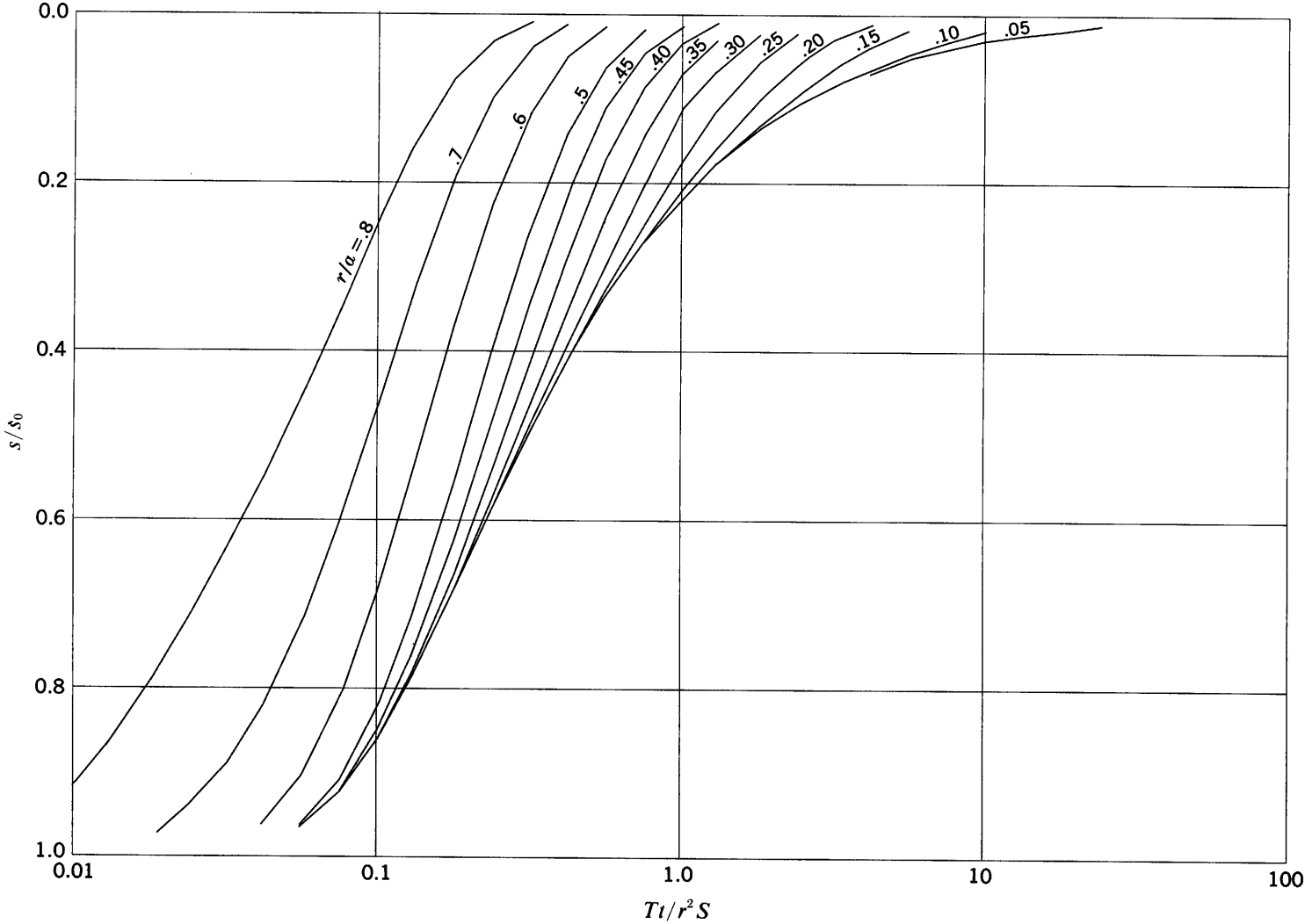

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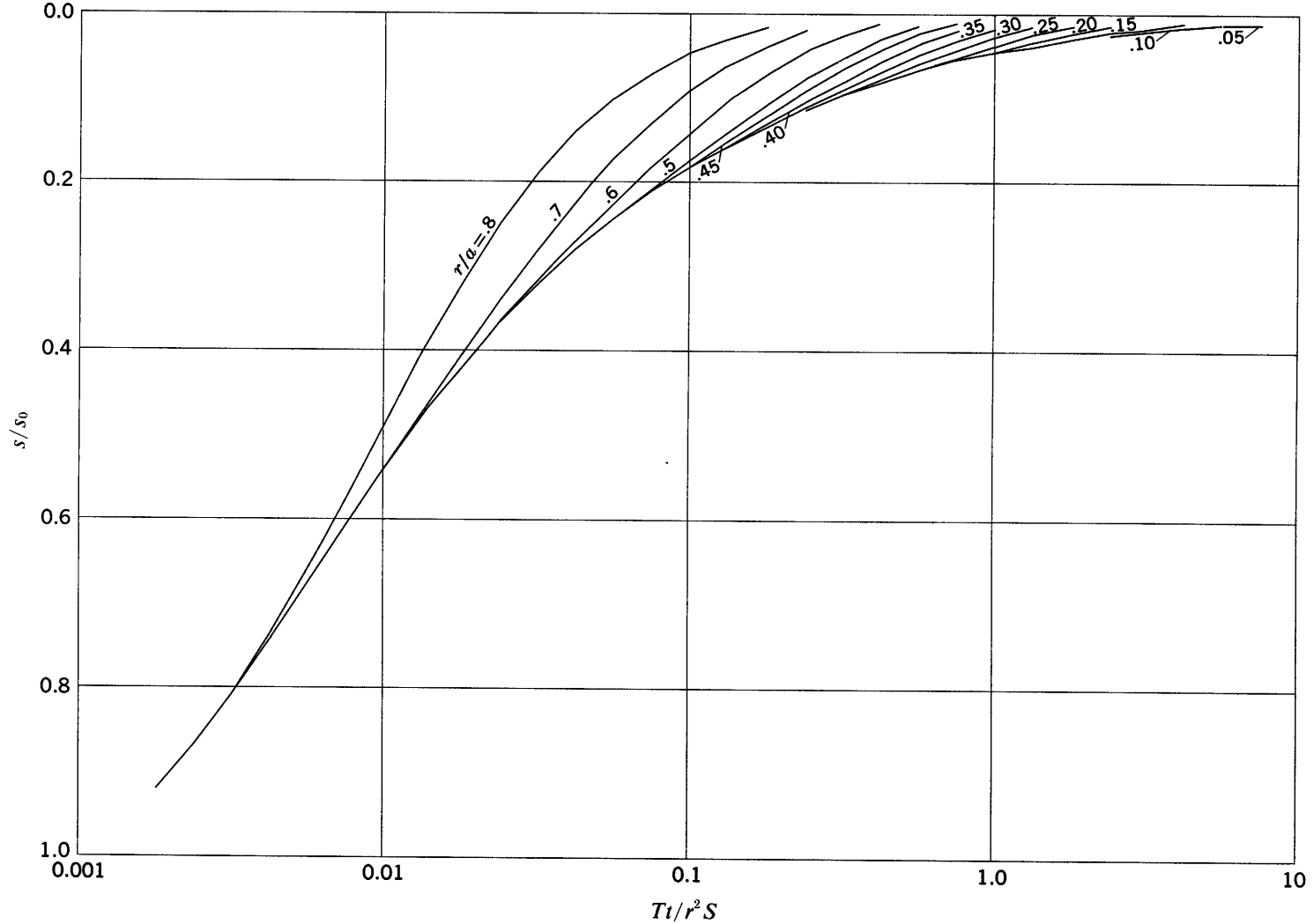
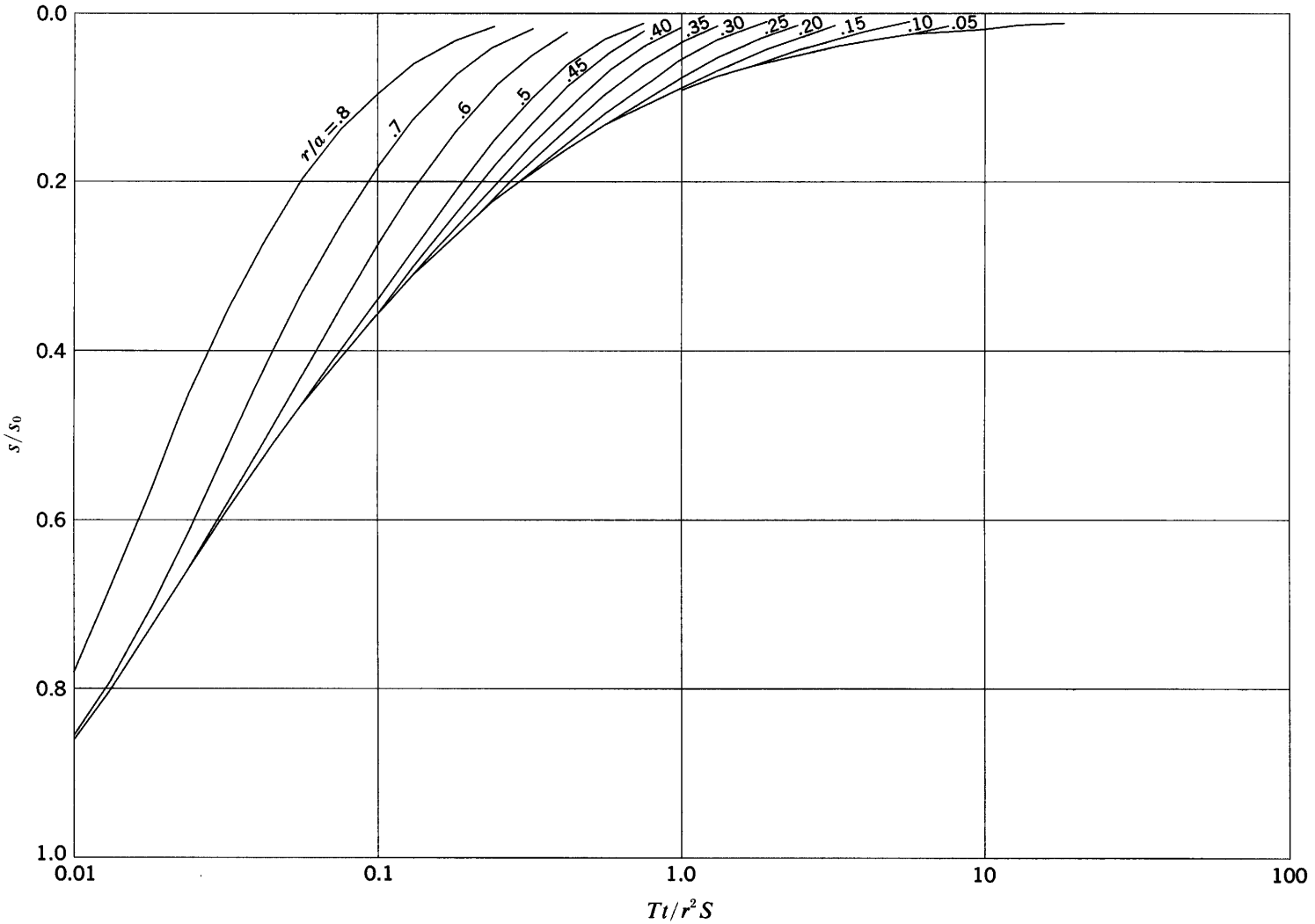


s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.05$



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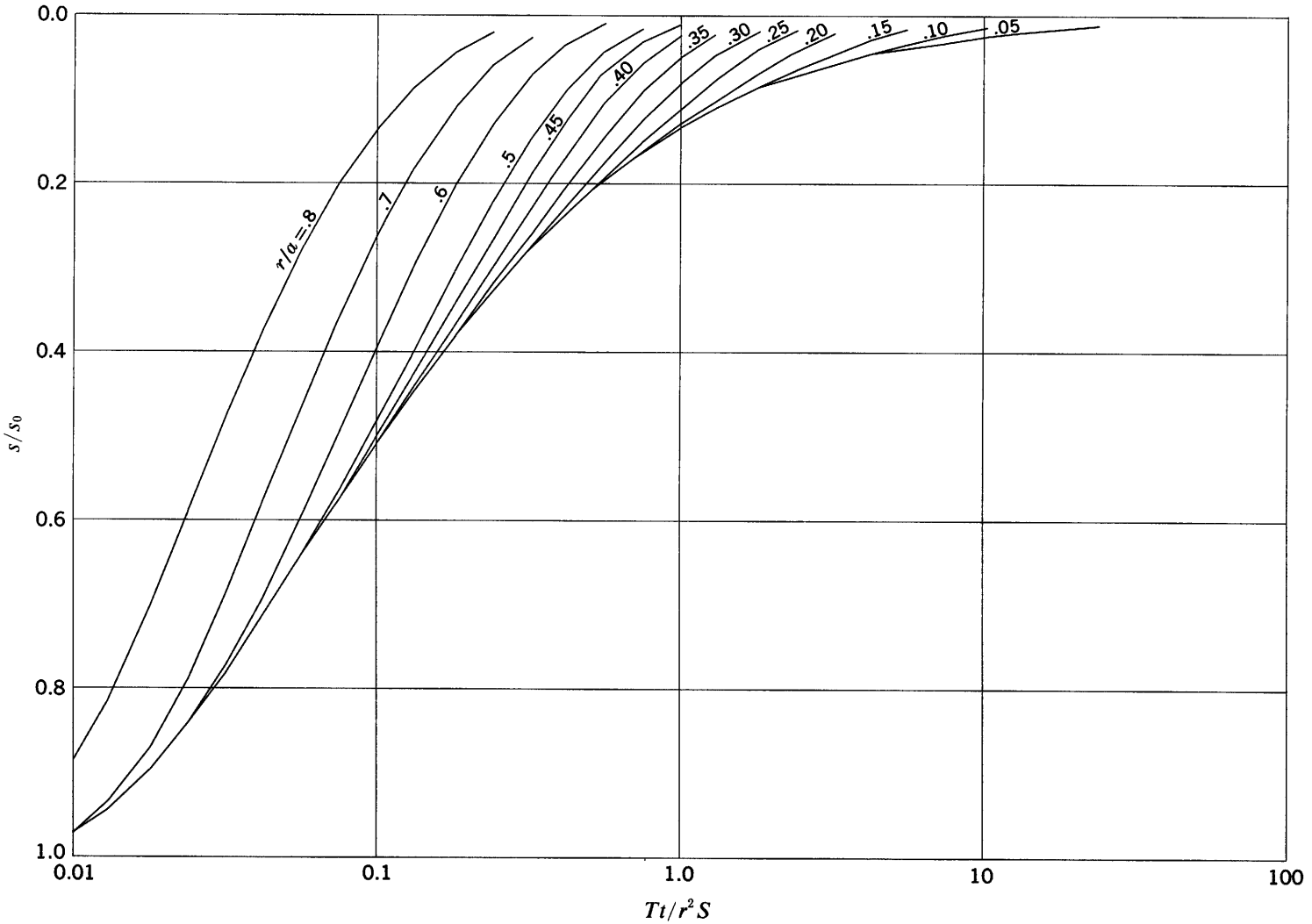

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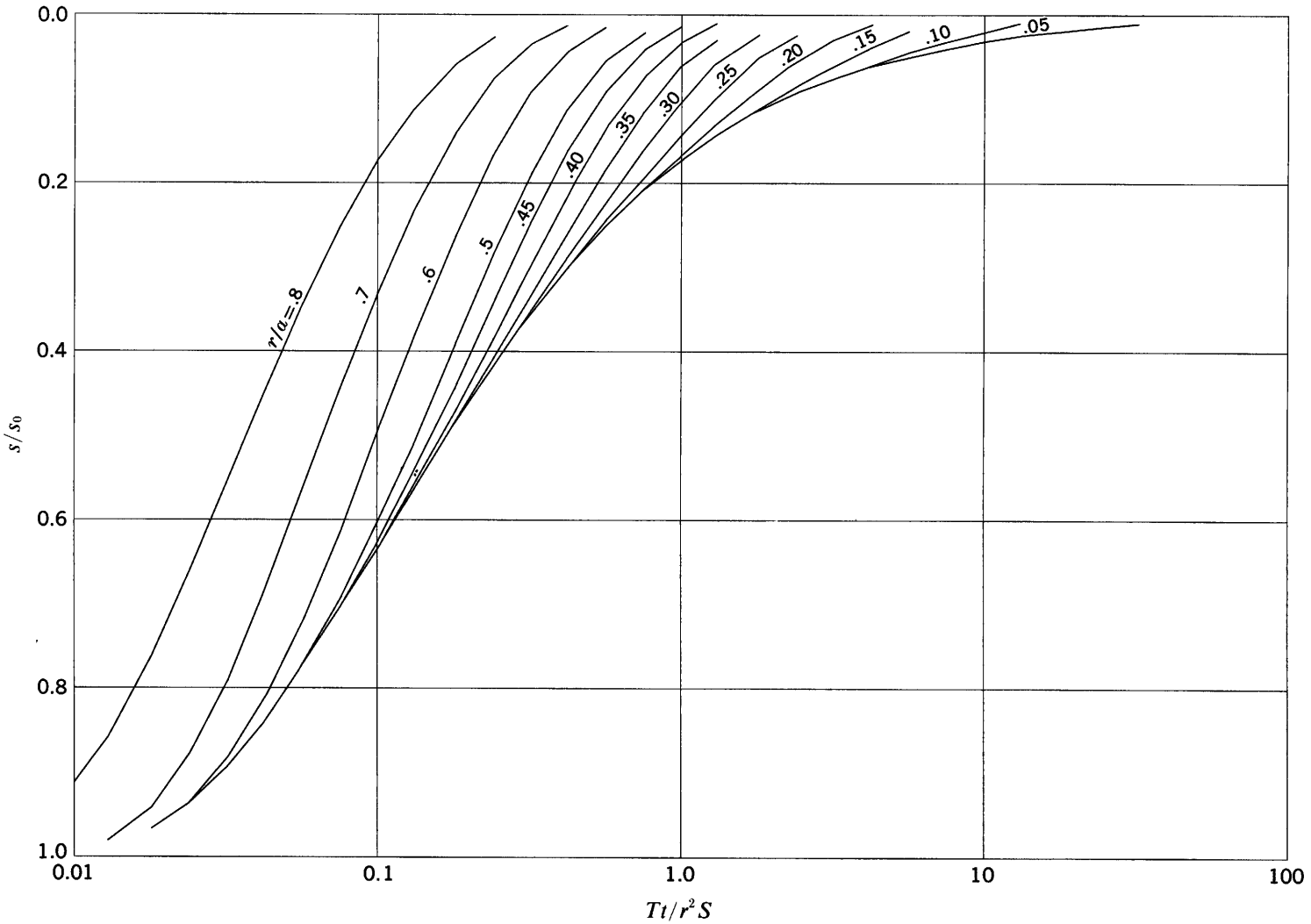
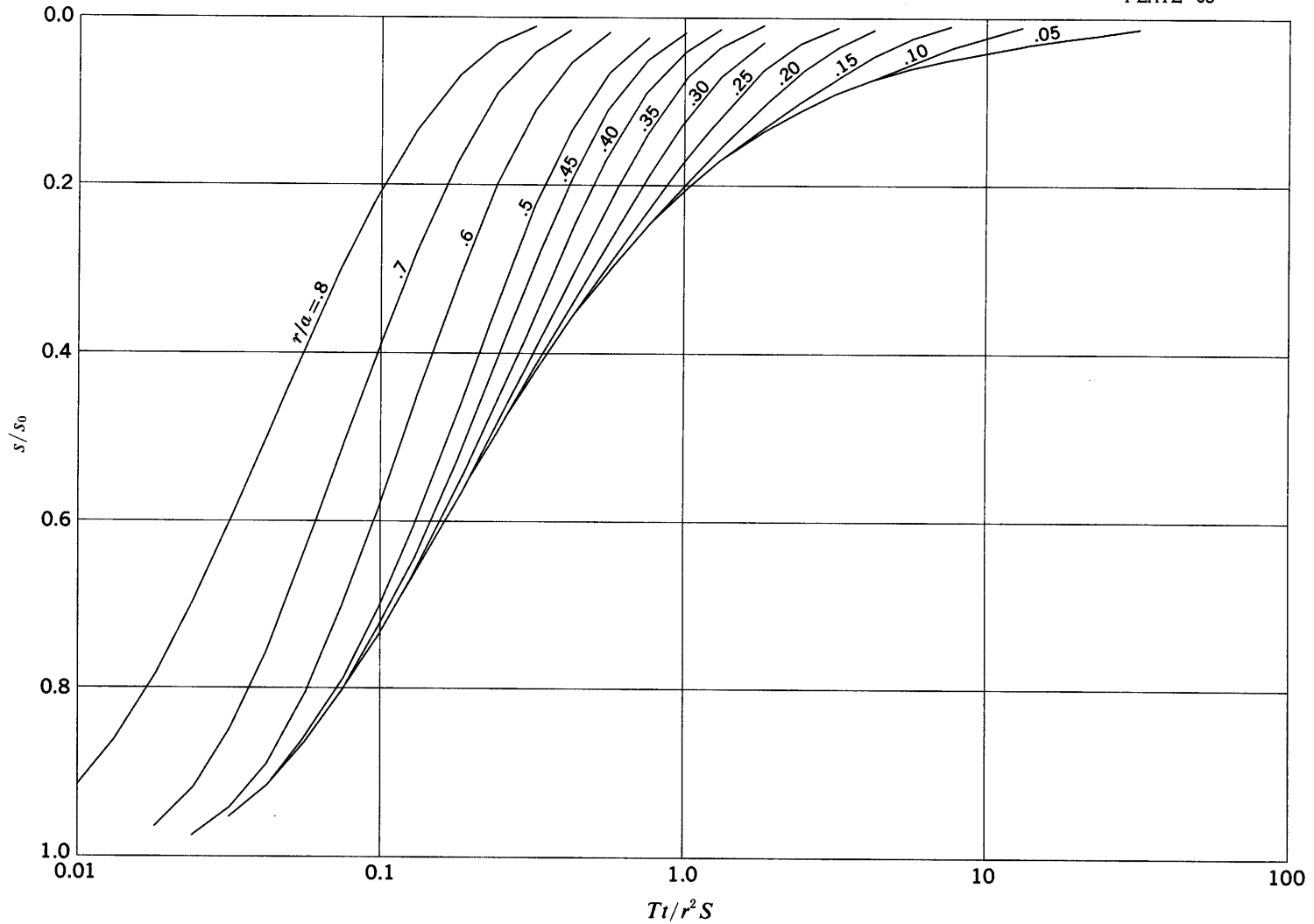
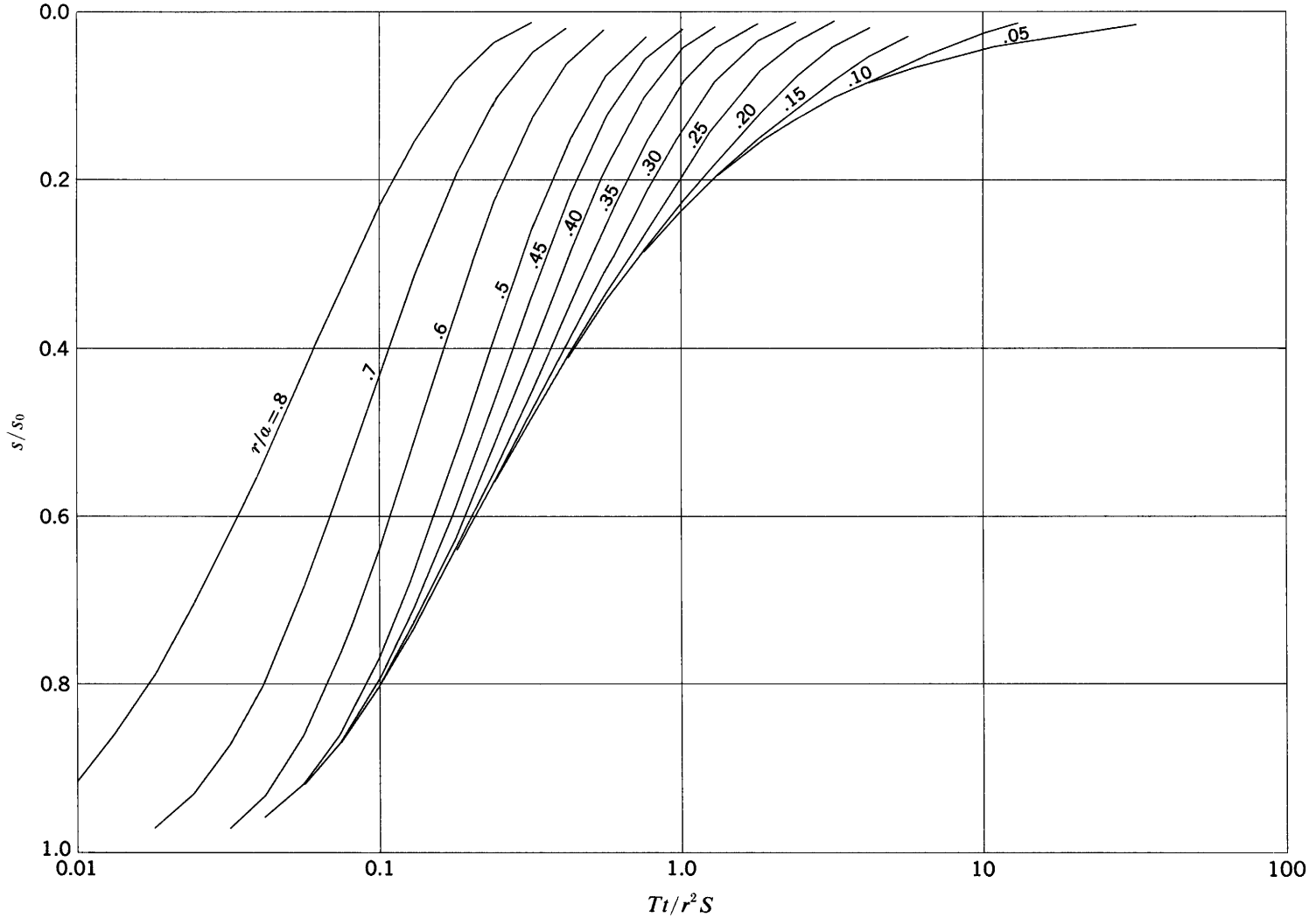


s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.20$



s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.25$



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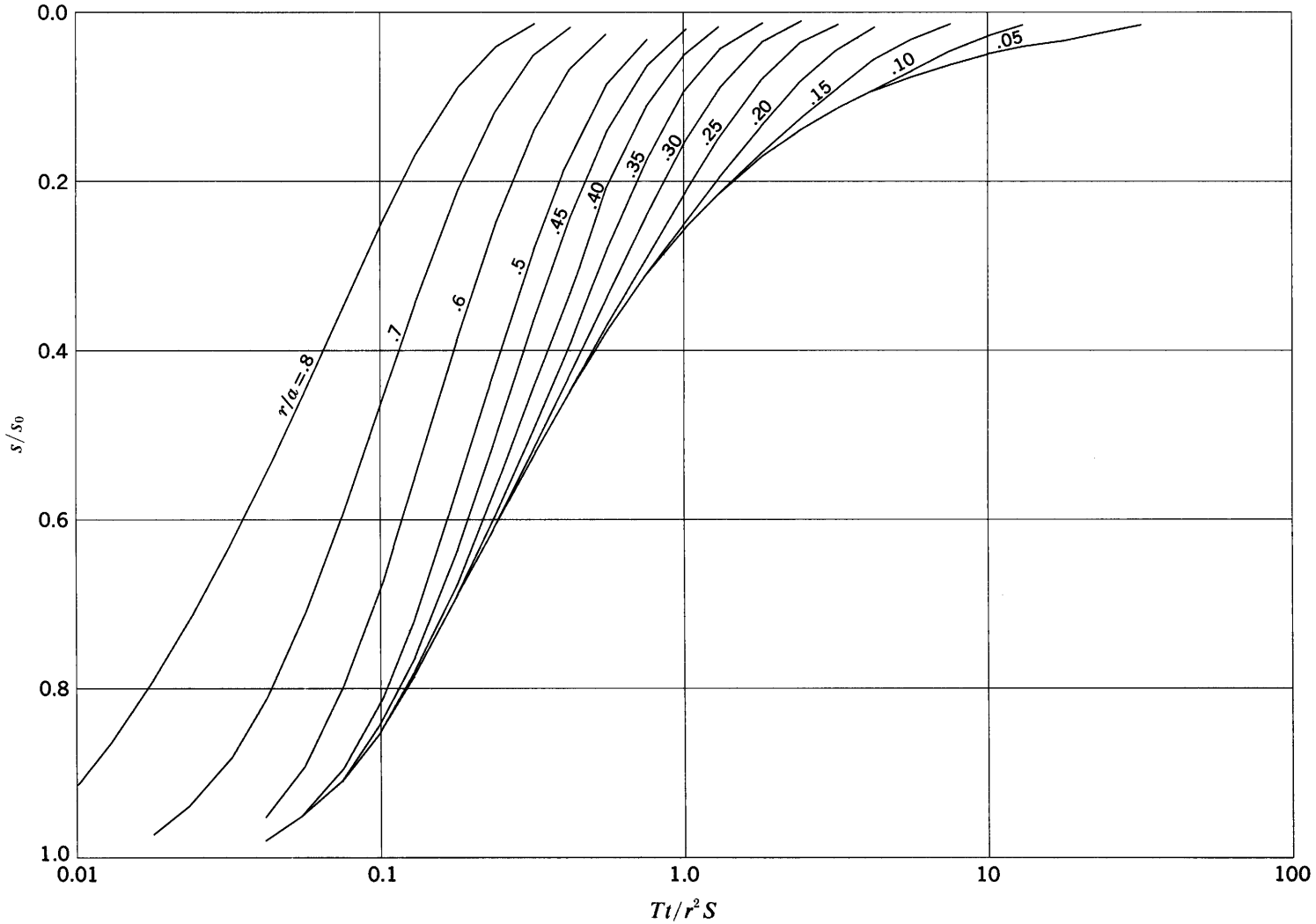
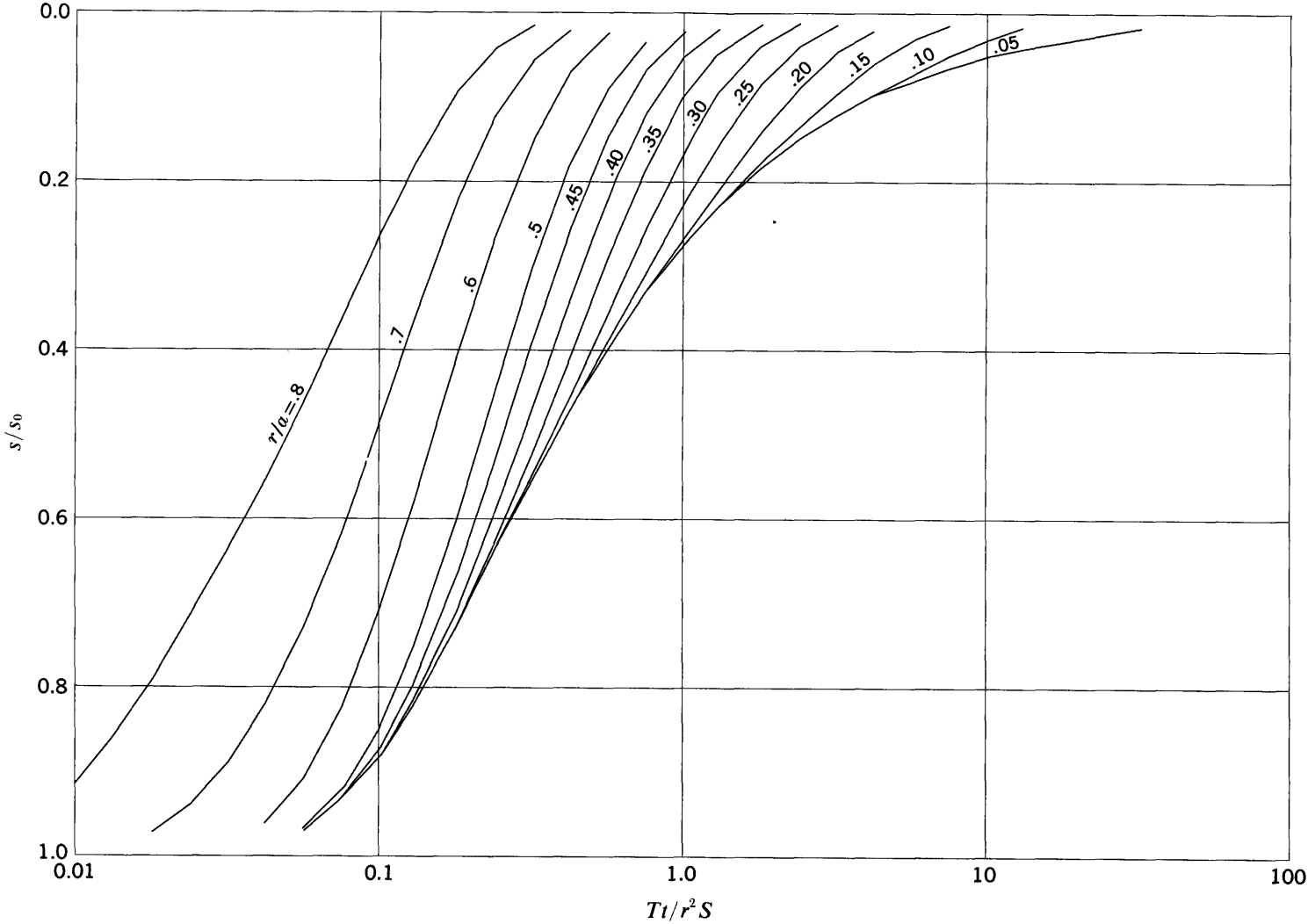


s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.35$



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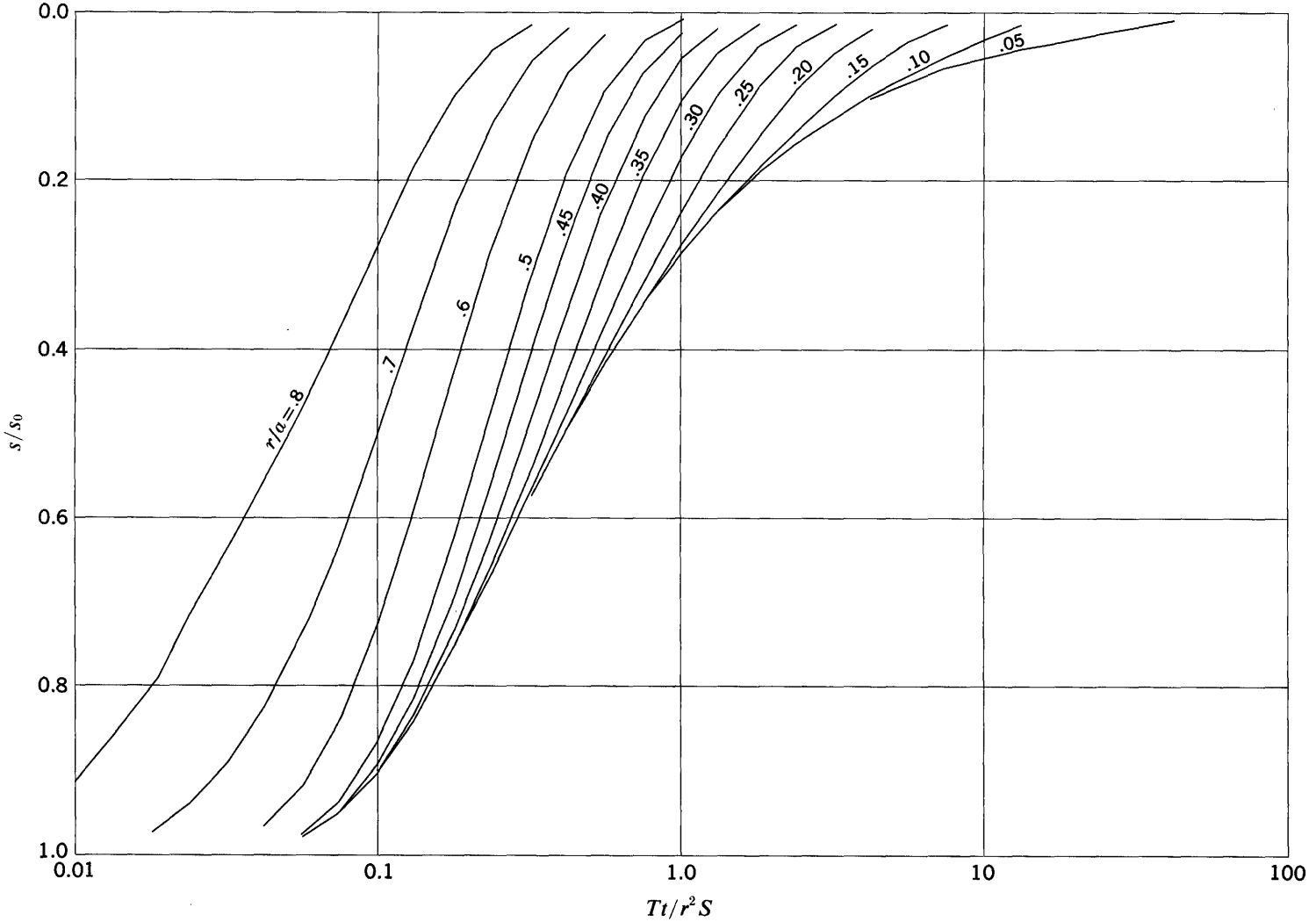
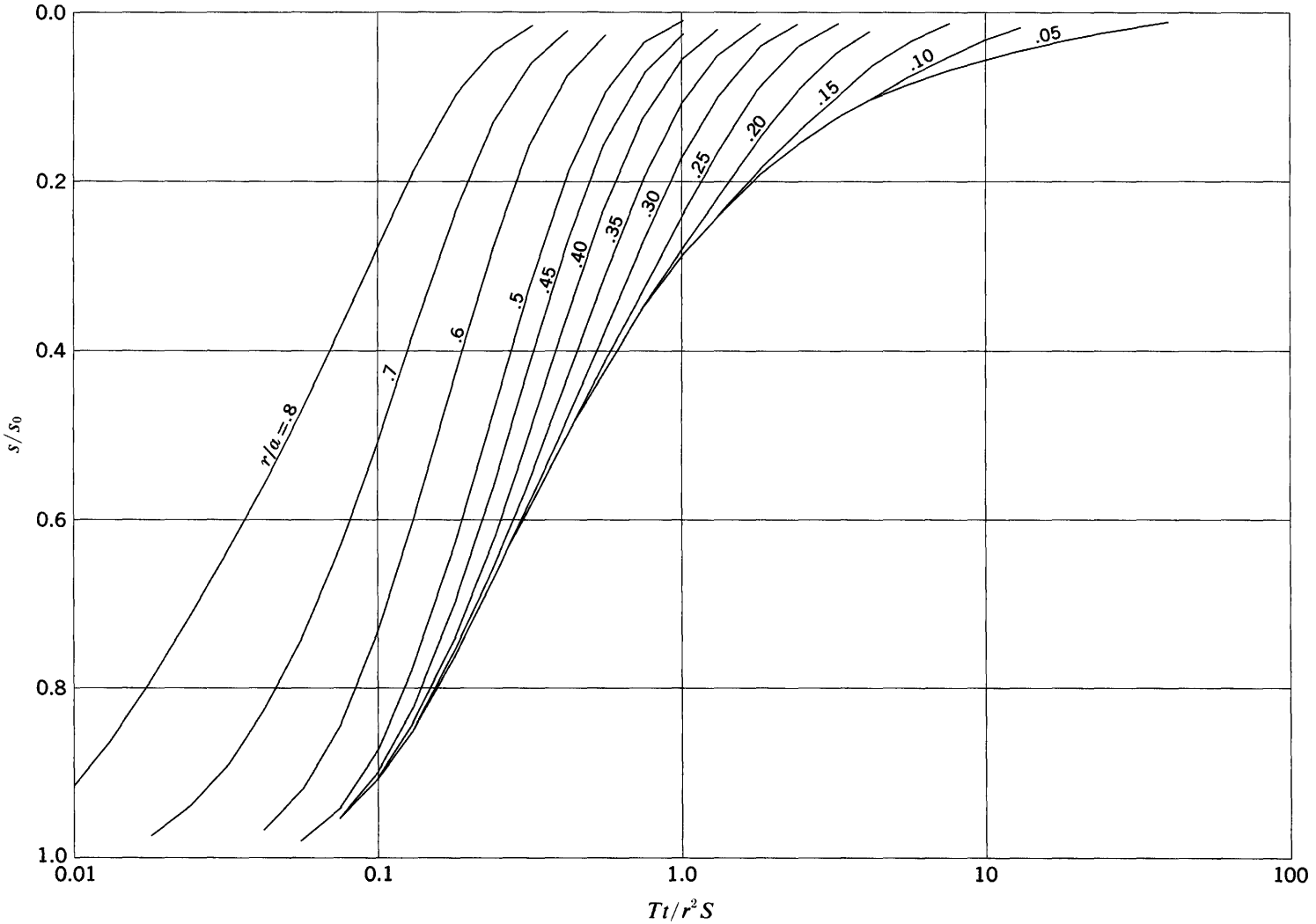
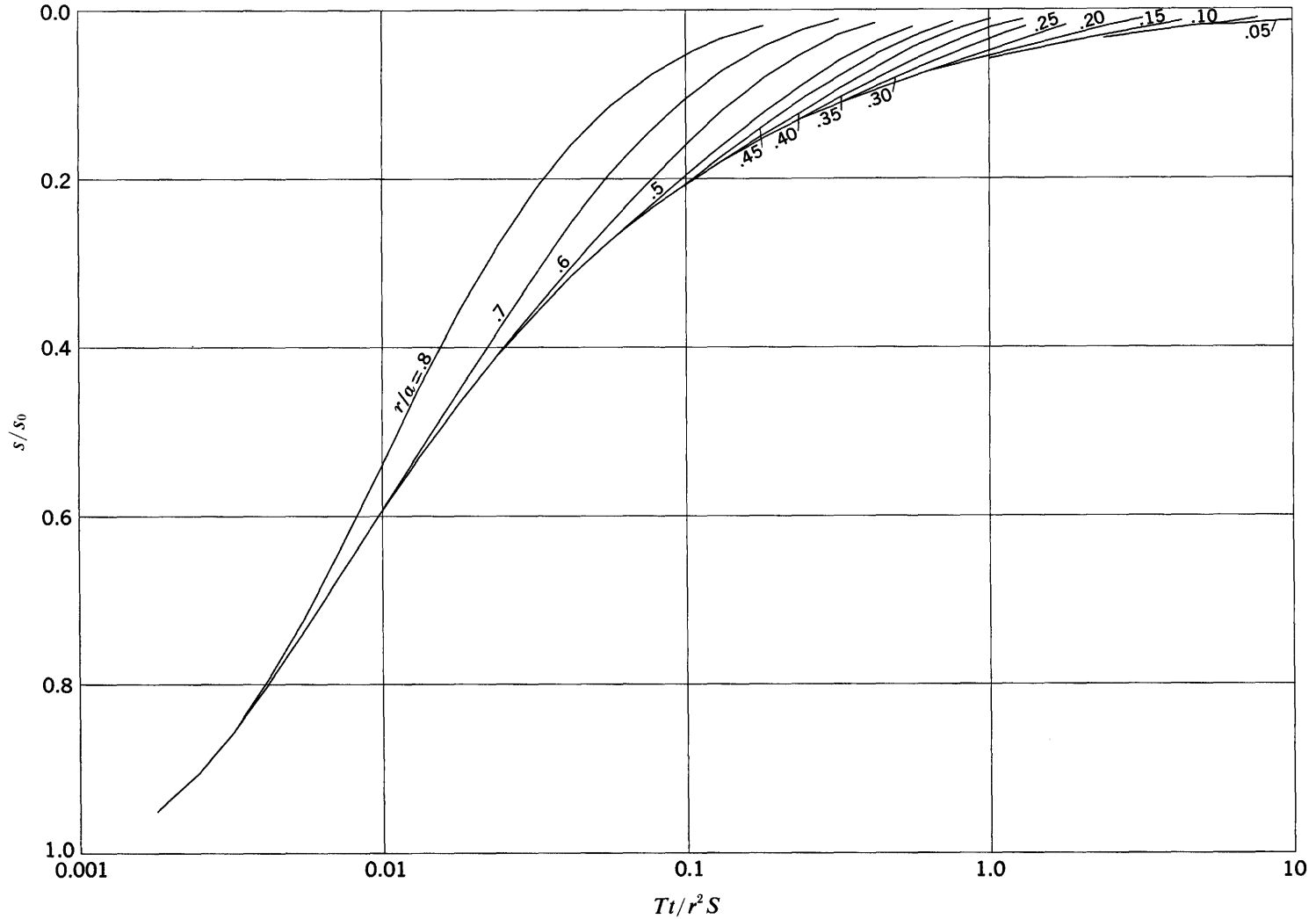


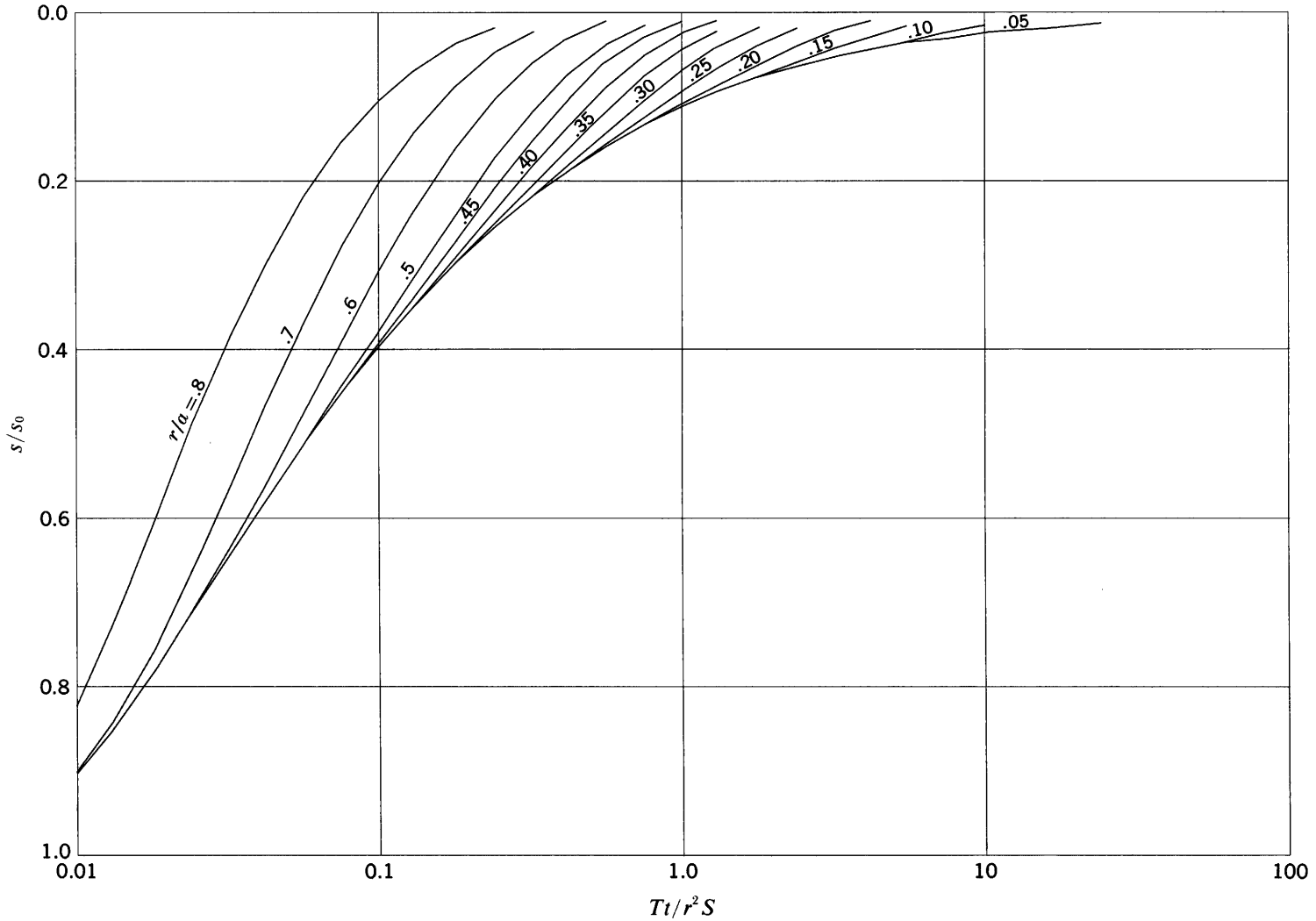
s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.45$



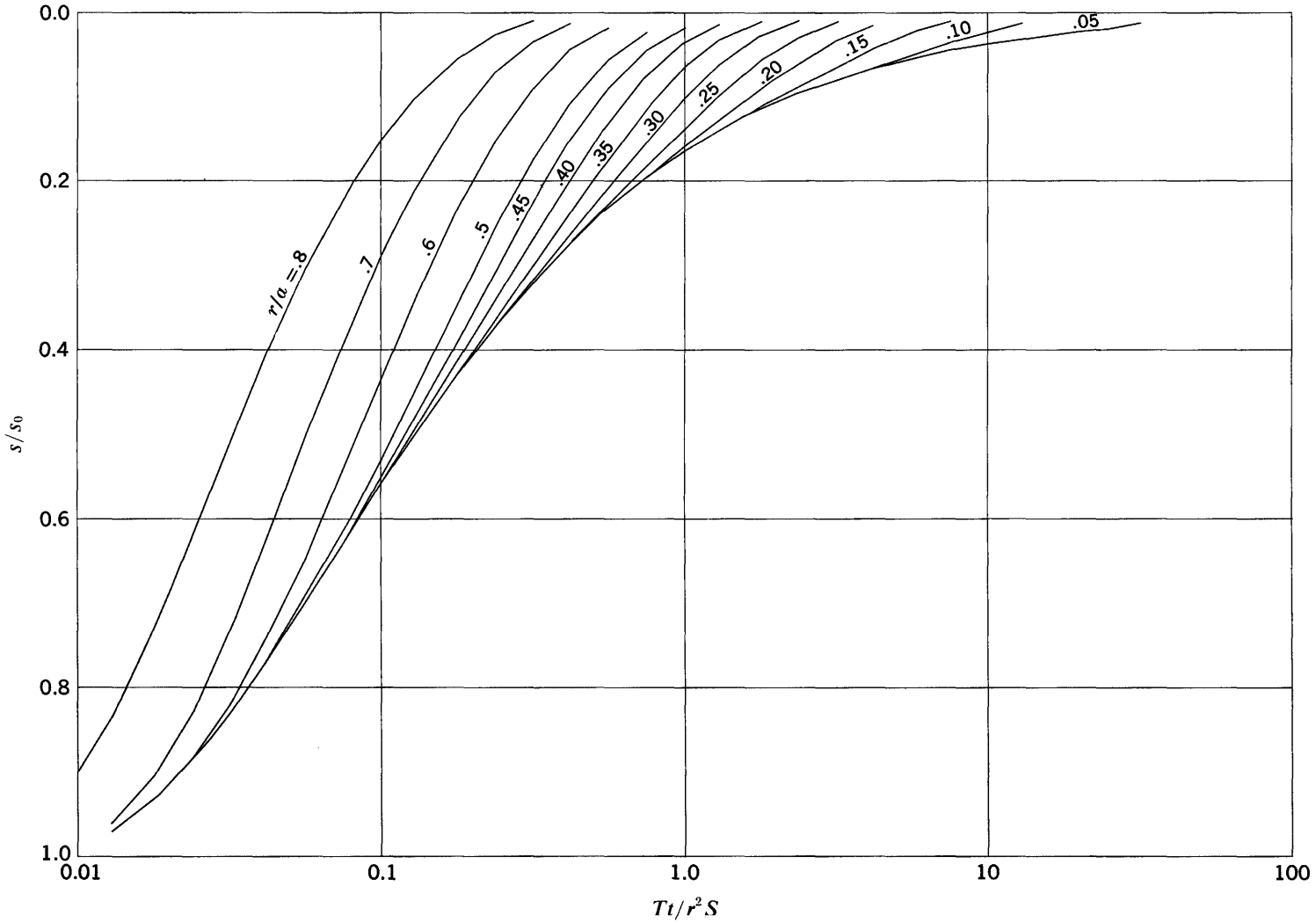
s/s_0 versus Tt/r^2S for $\theta_0 = 120°$; $\theta/\theta_0 = 0.50$



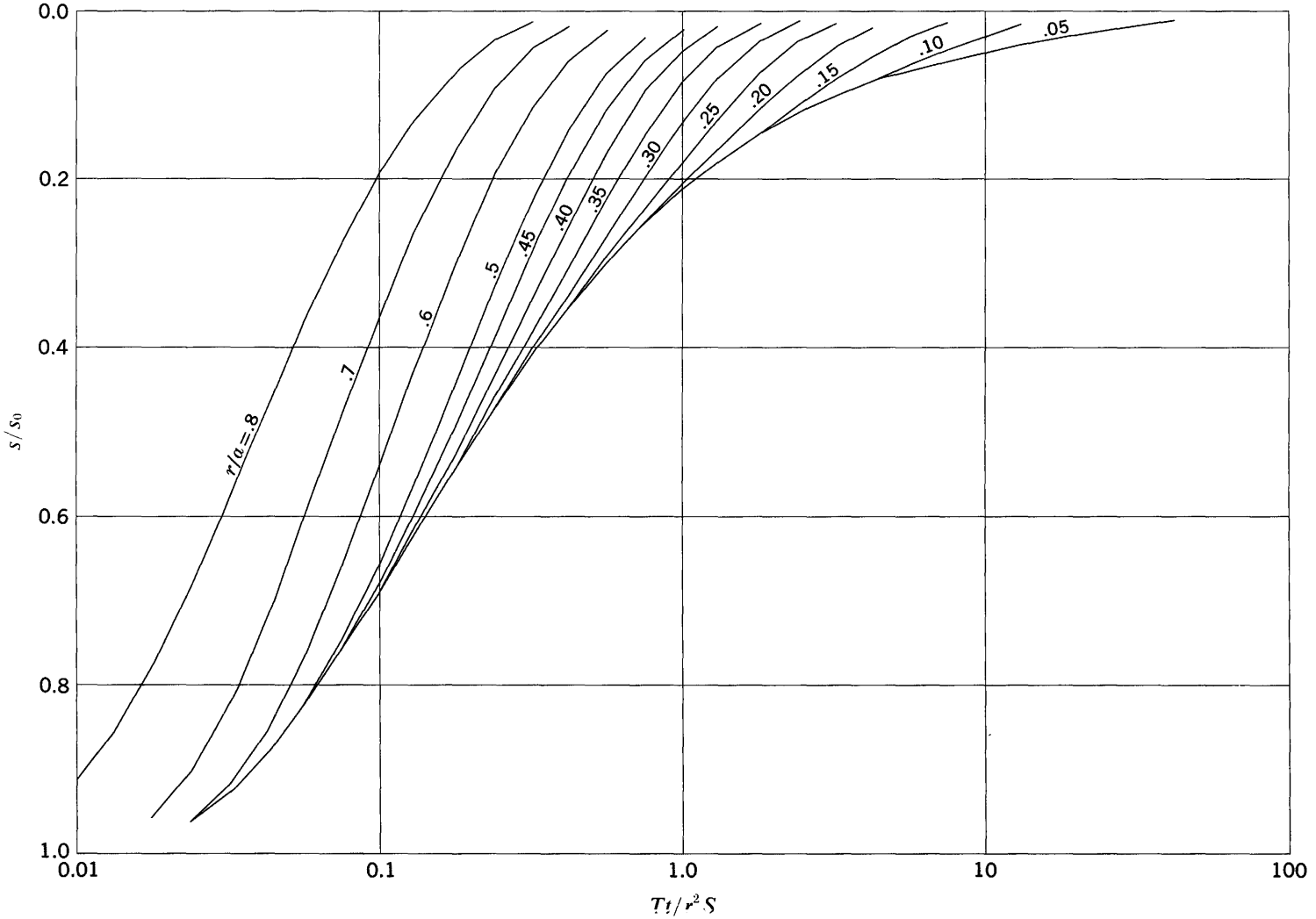
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.05$



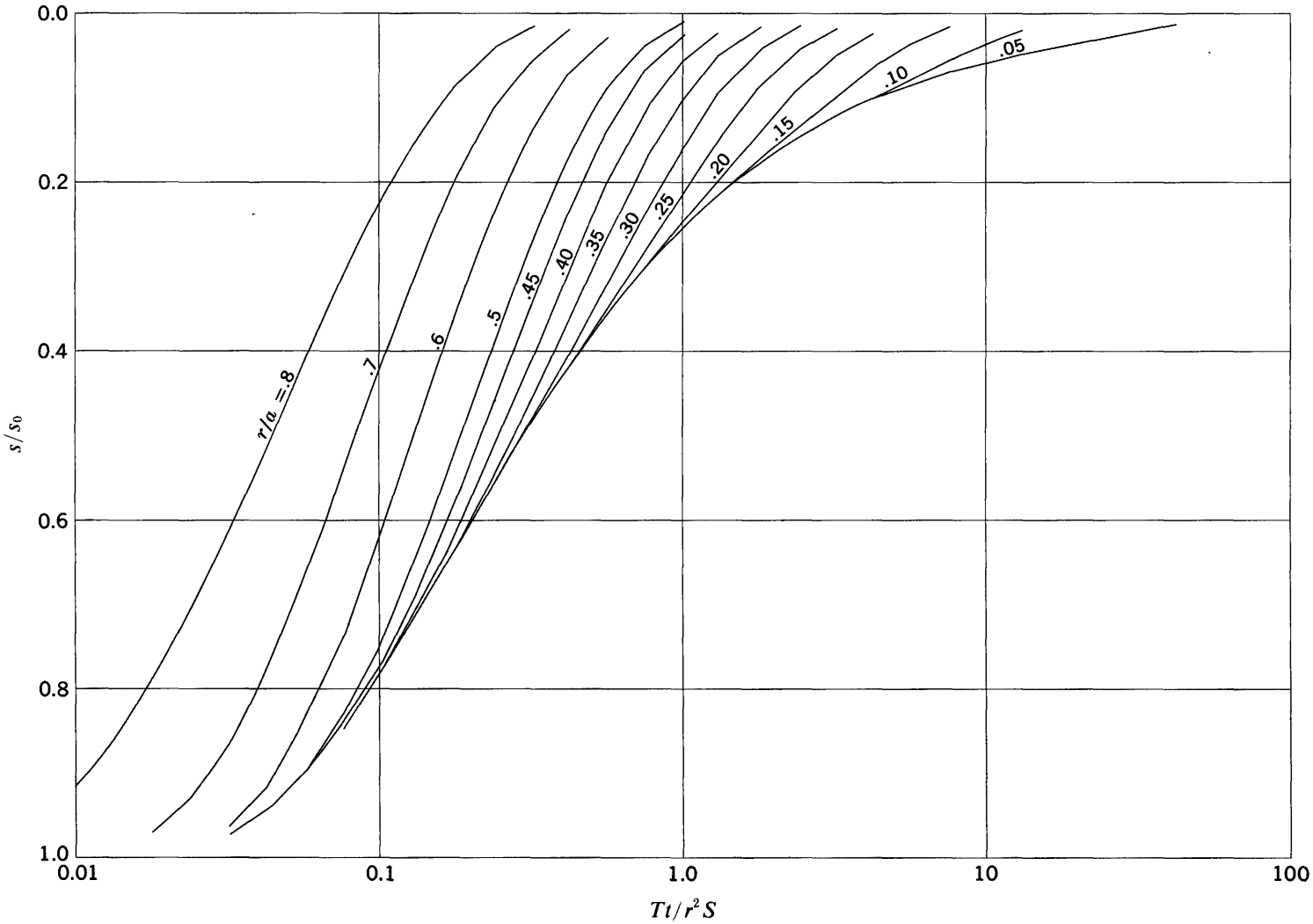
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.10$



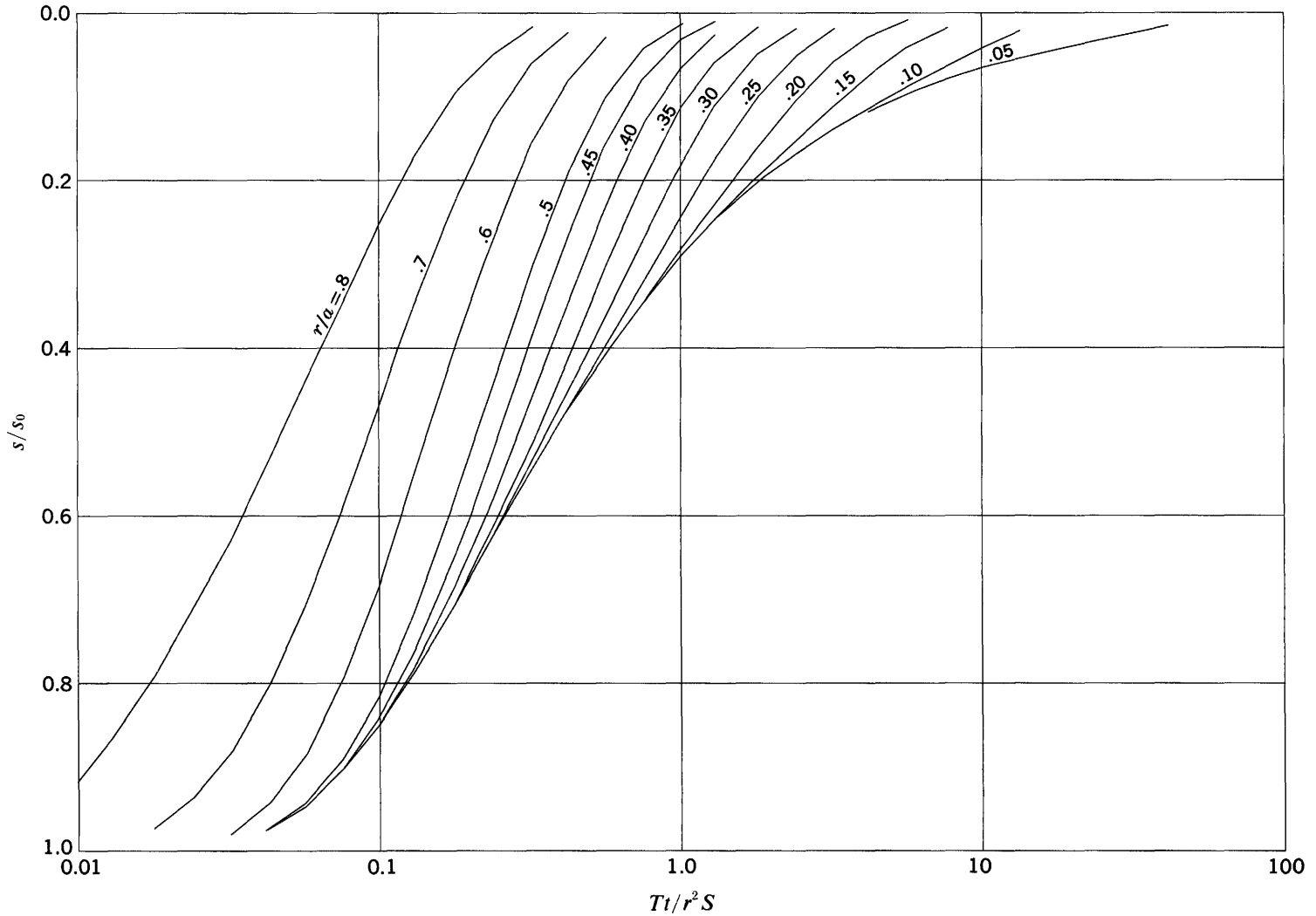
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.15$



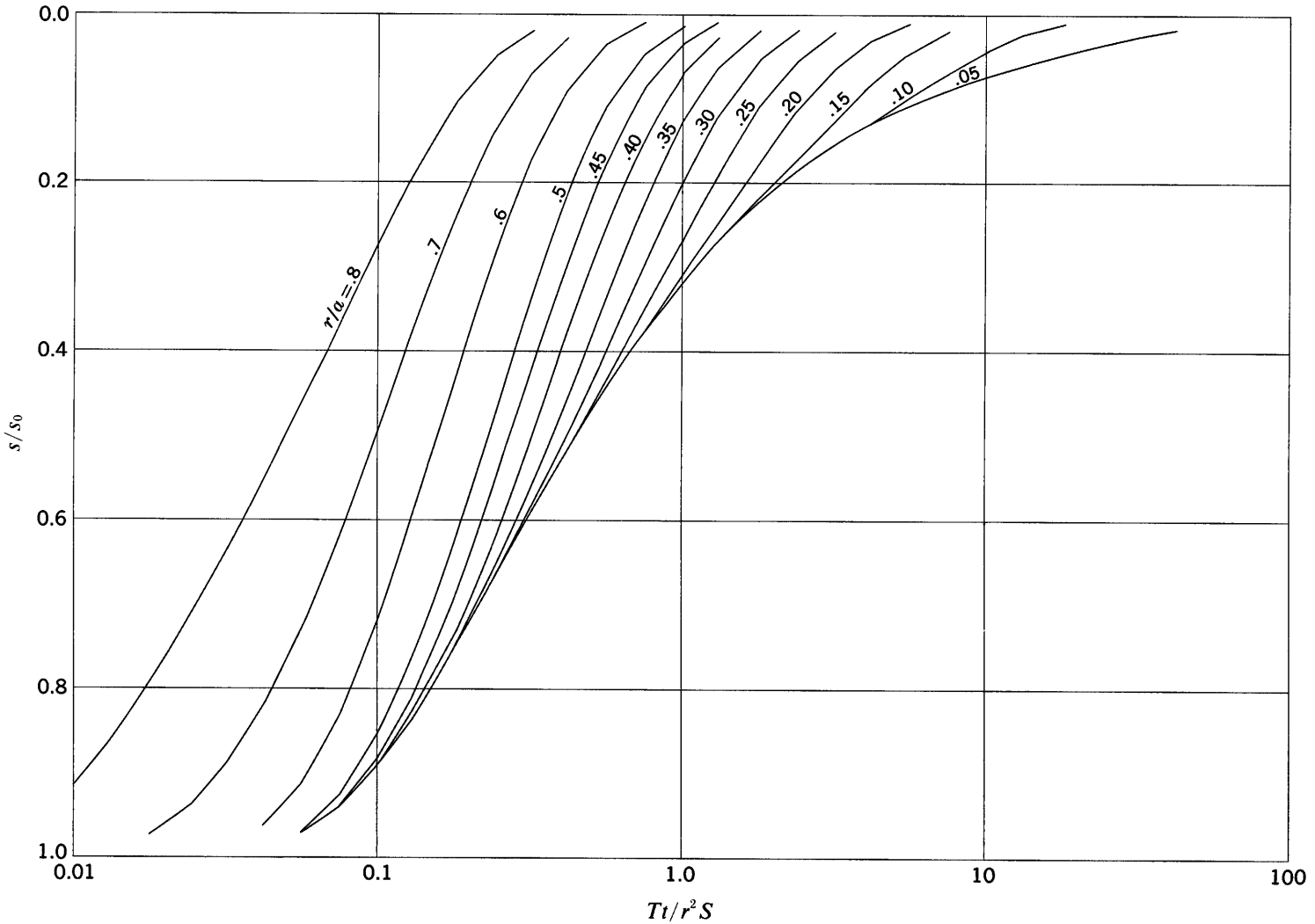
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.20$



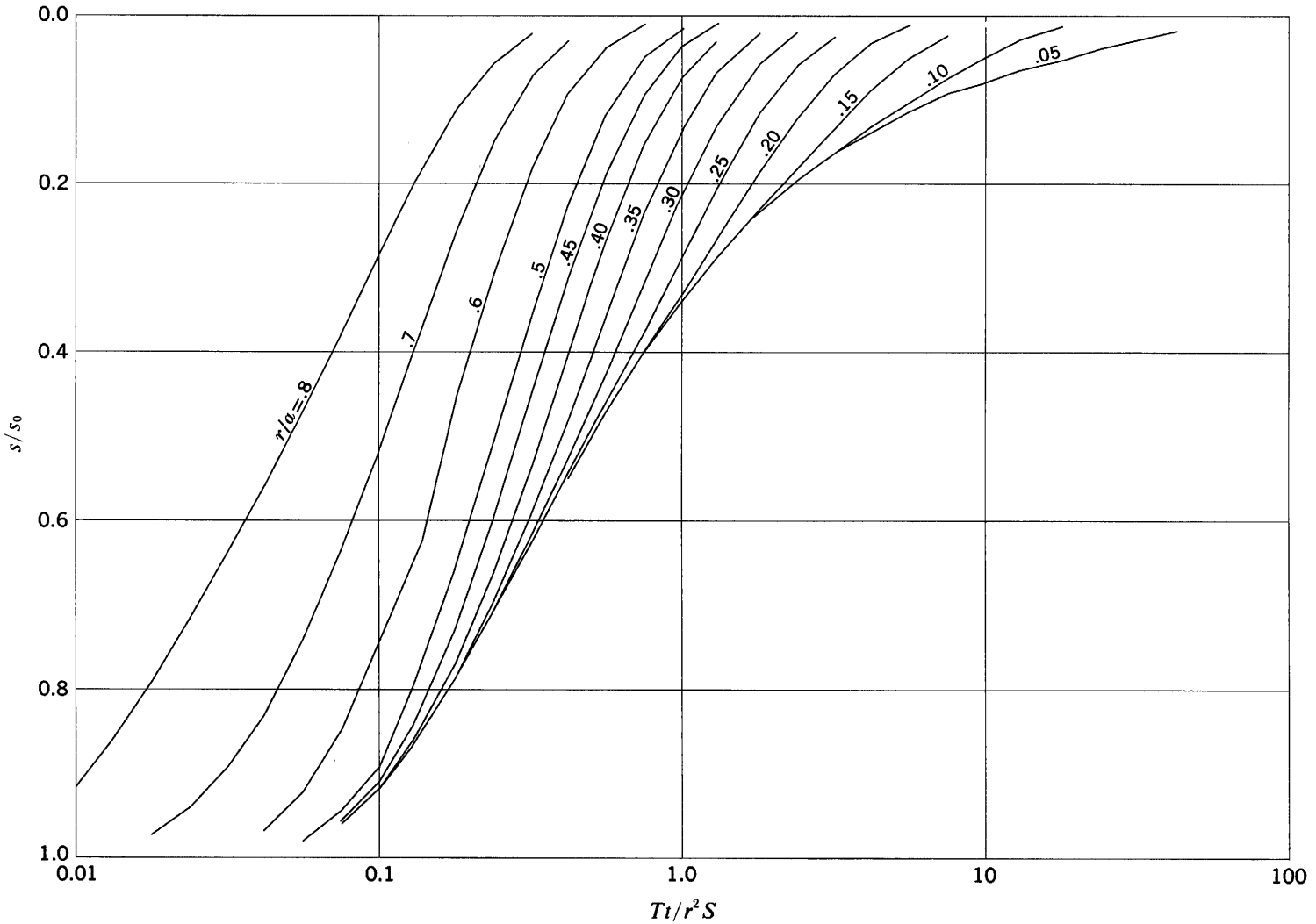
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.25$



s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.30$



s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.35$



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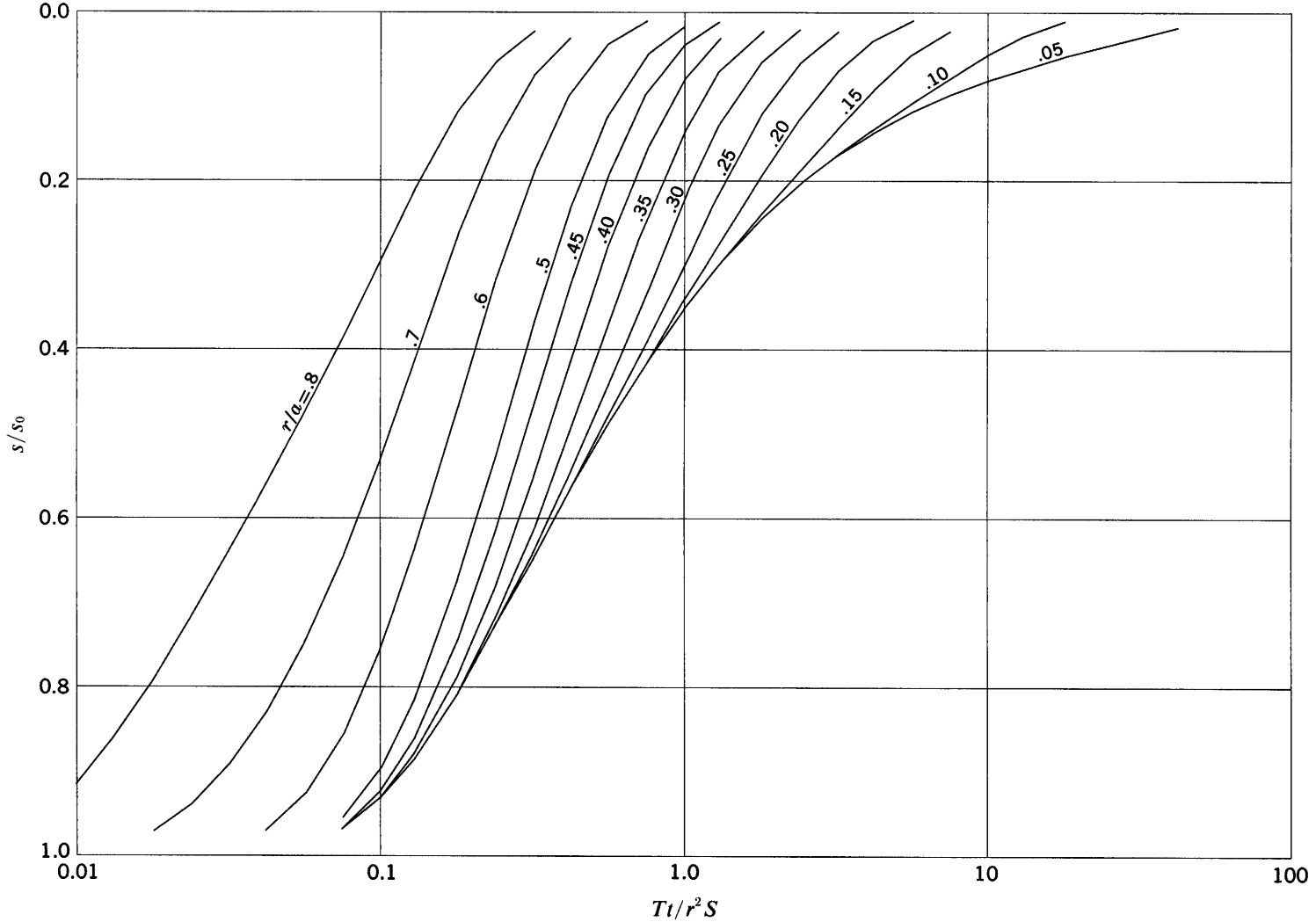
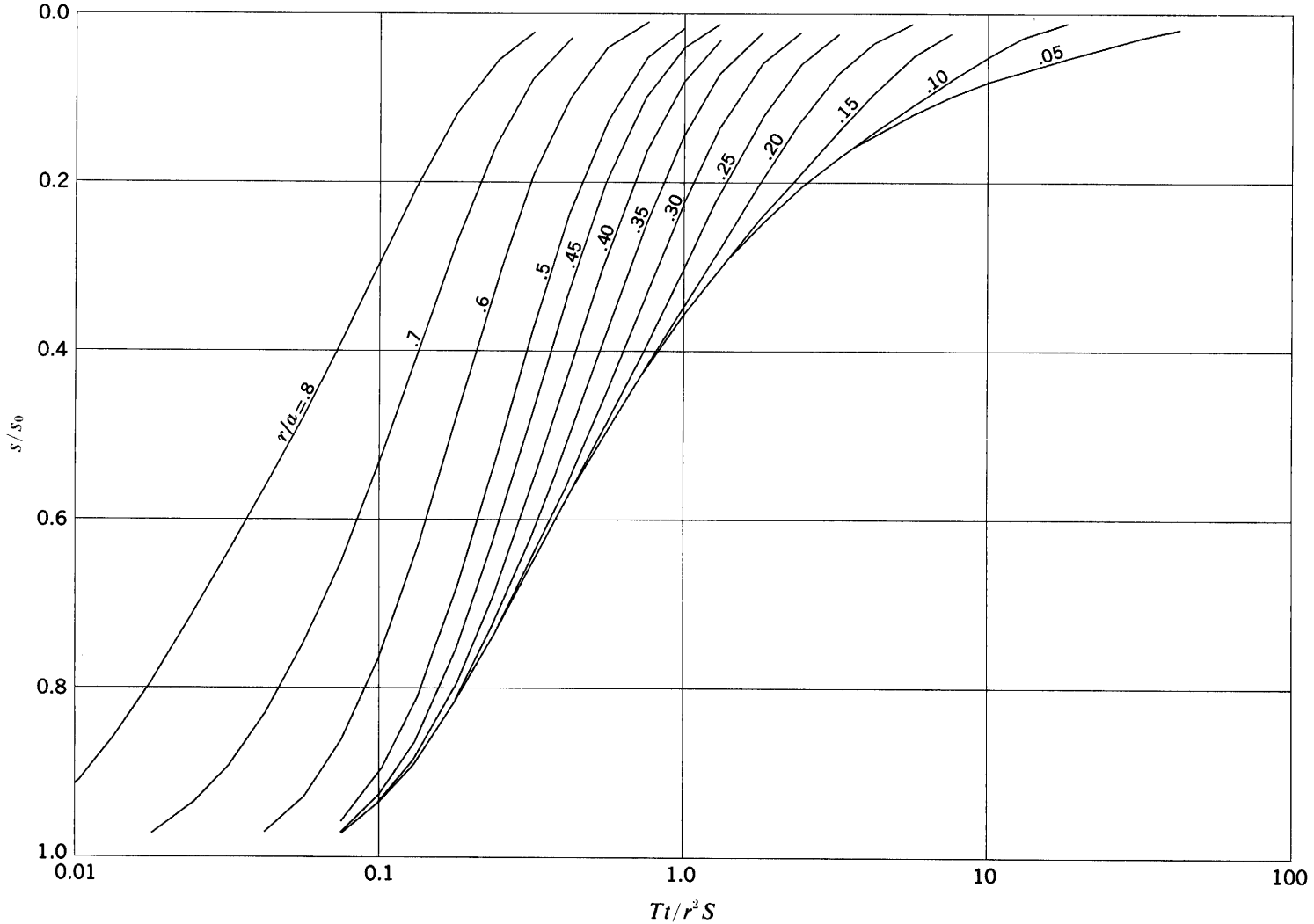
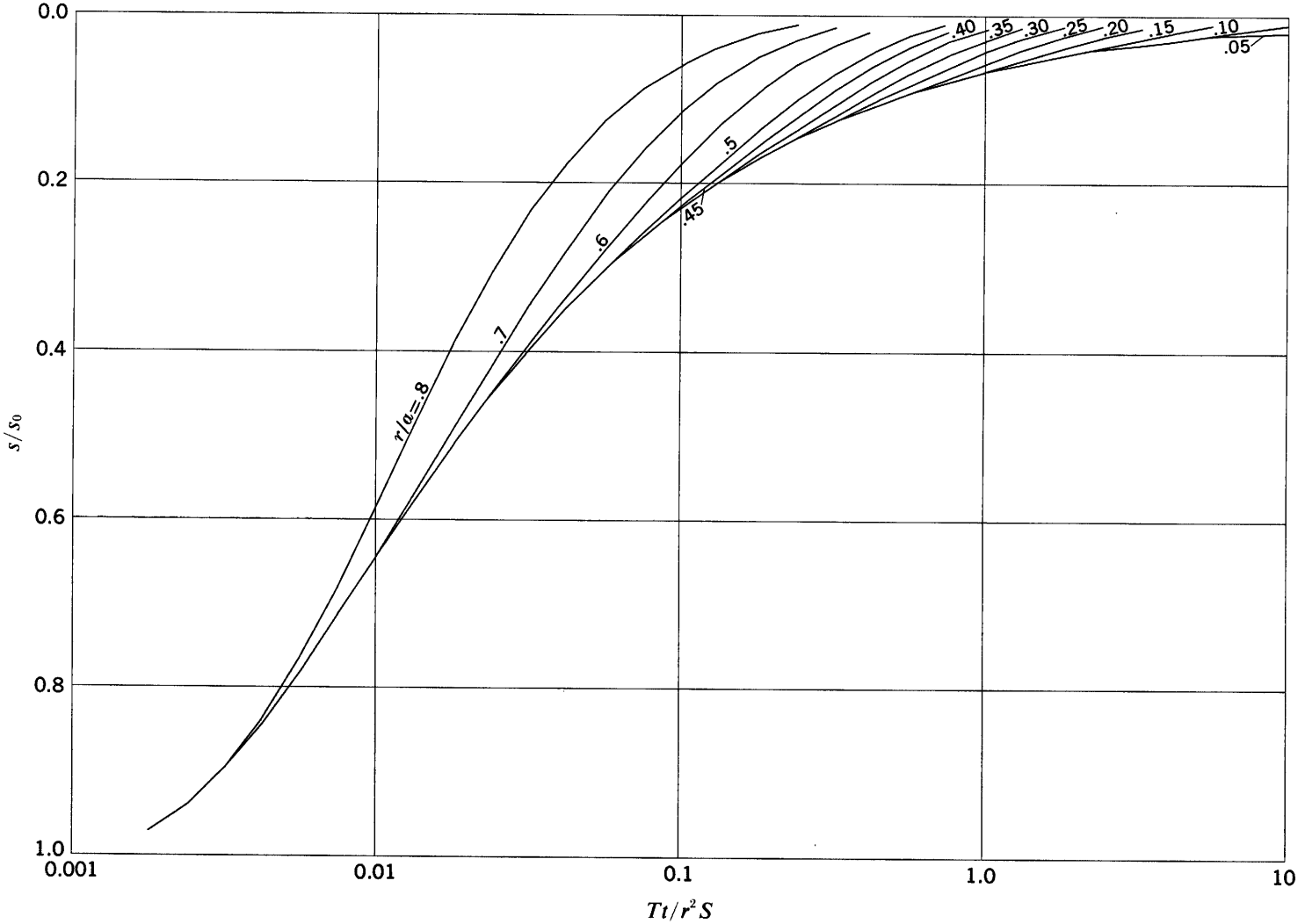


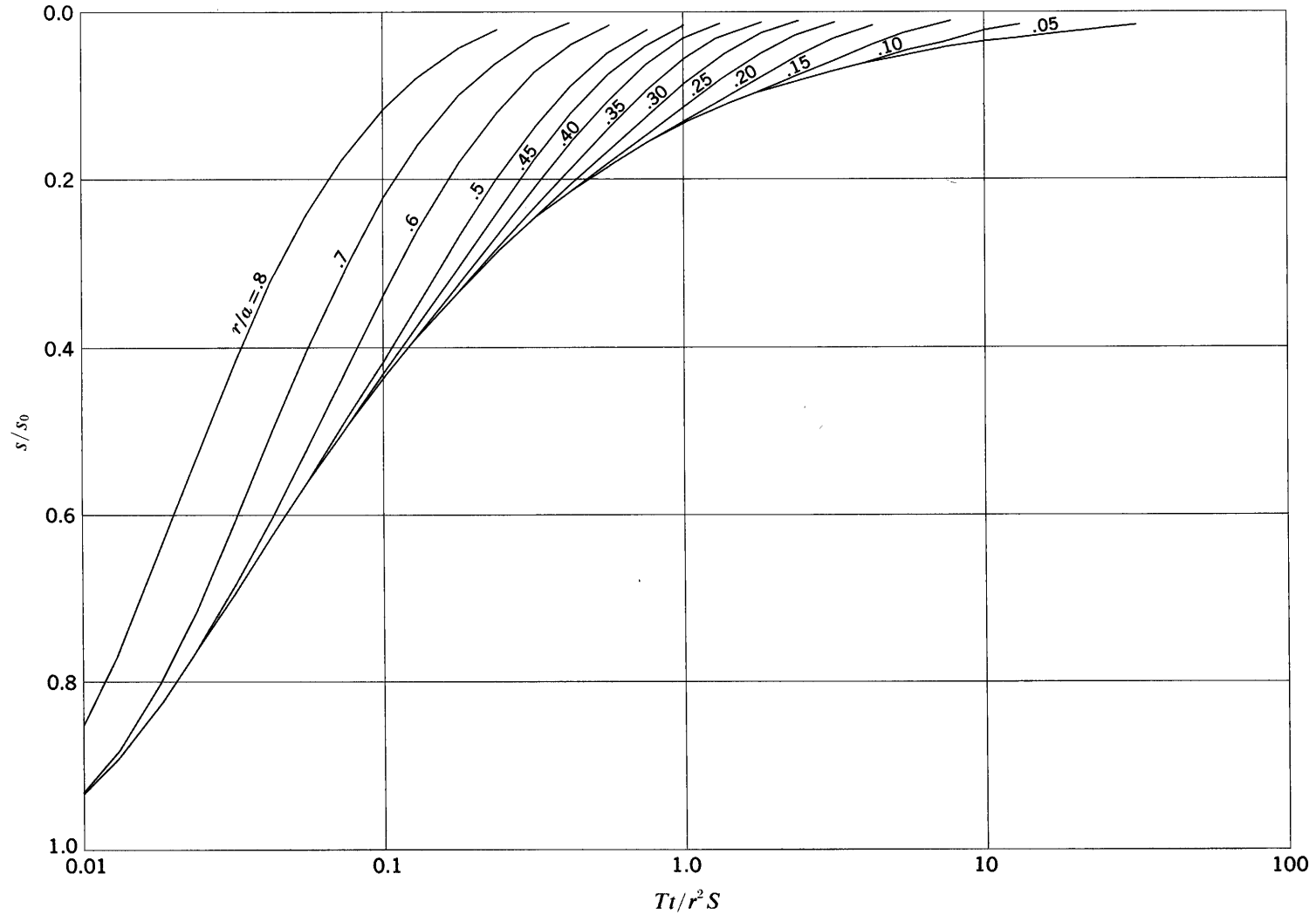
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.45$



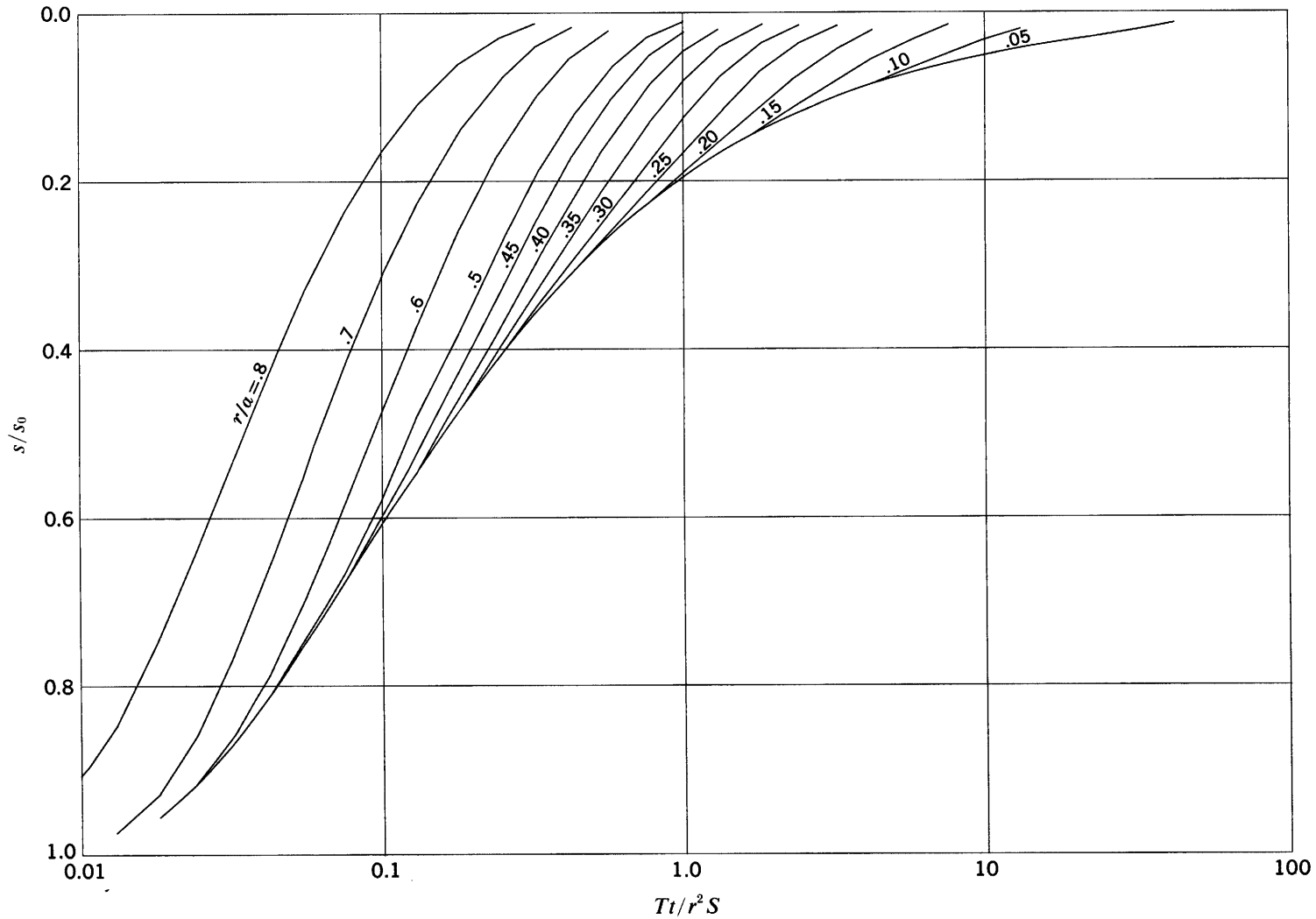
s/s_0 versus Tt/r^2S for $\theta_0 = 135°$; $\theta/\theta_0 = 0.50$



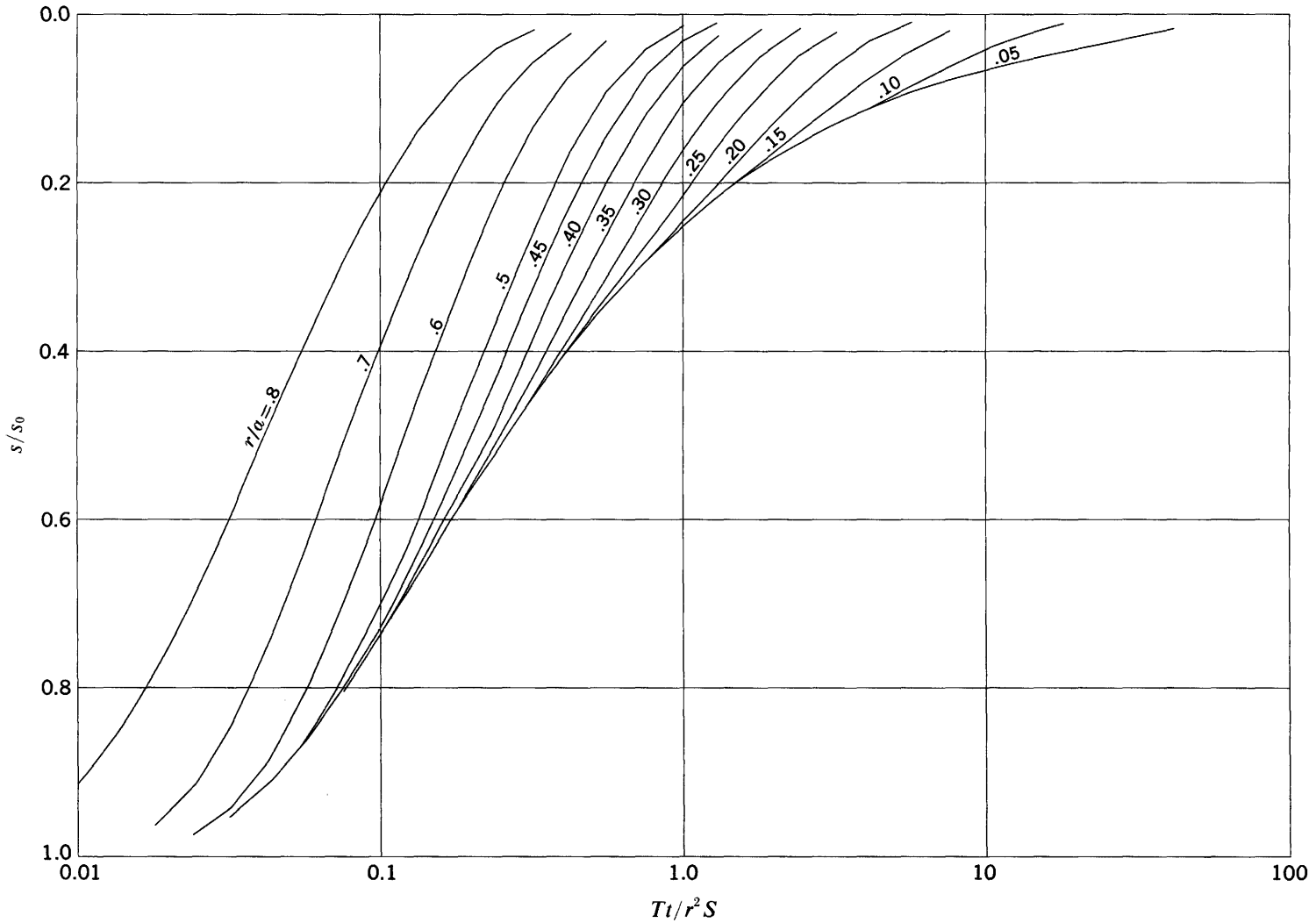
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.05$



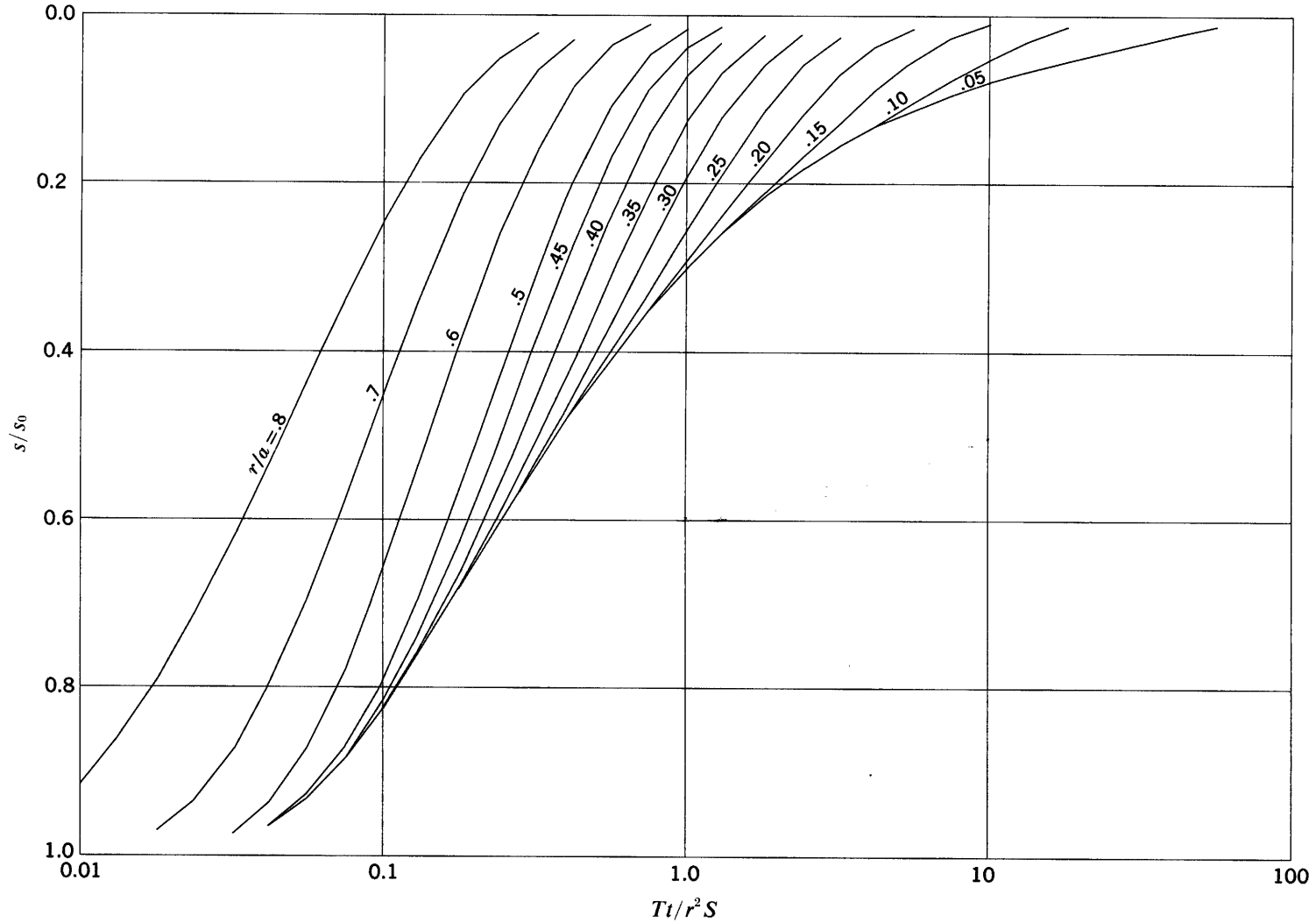
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.10$



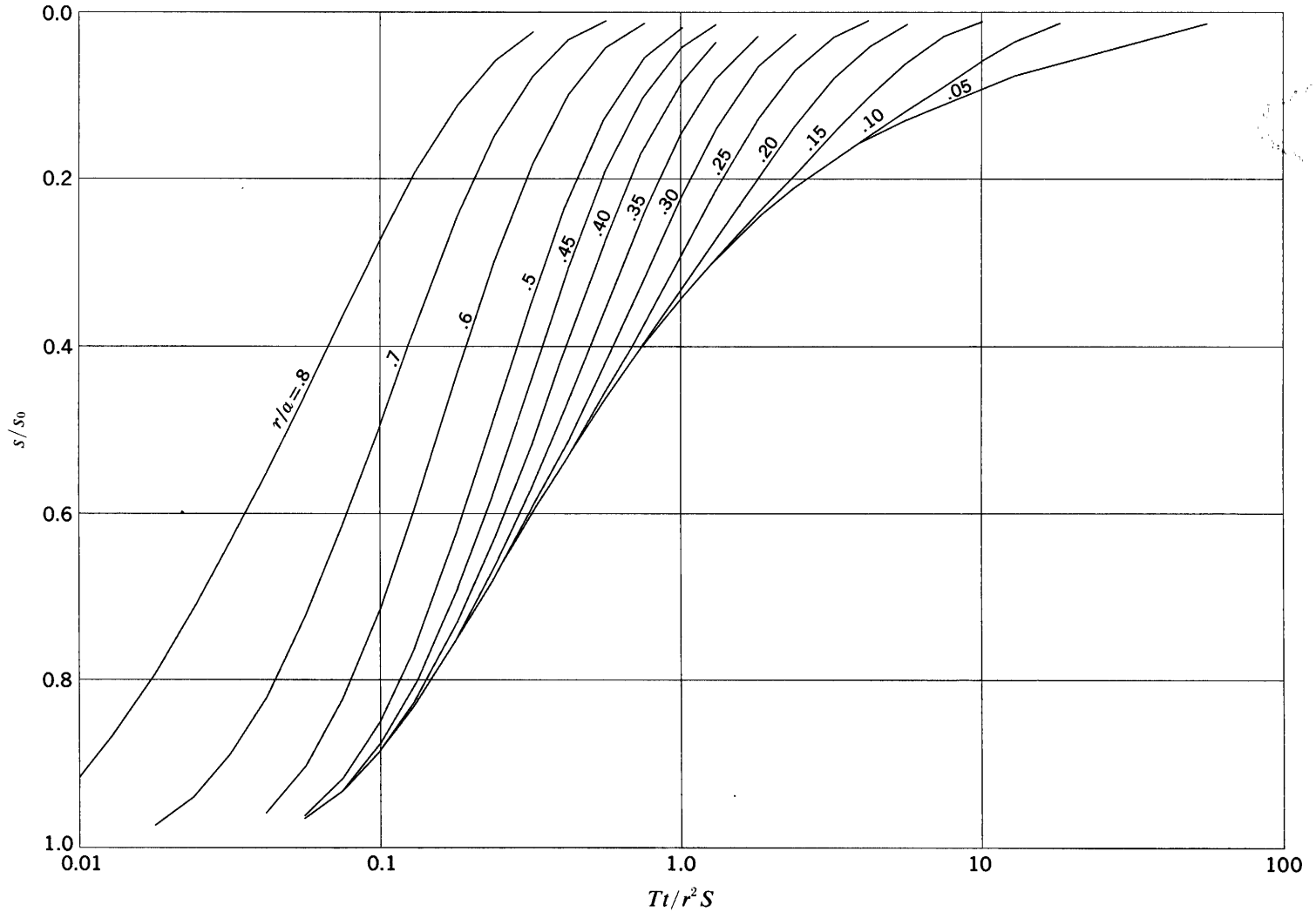
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.15$



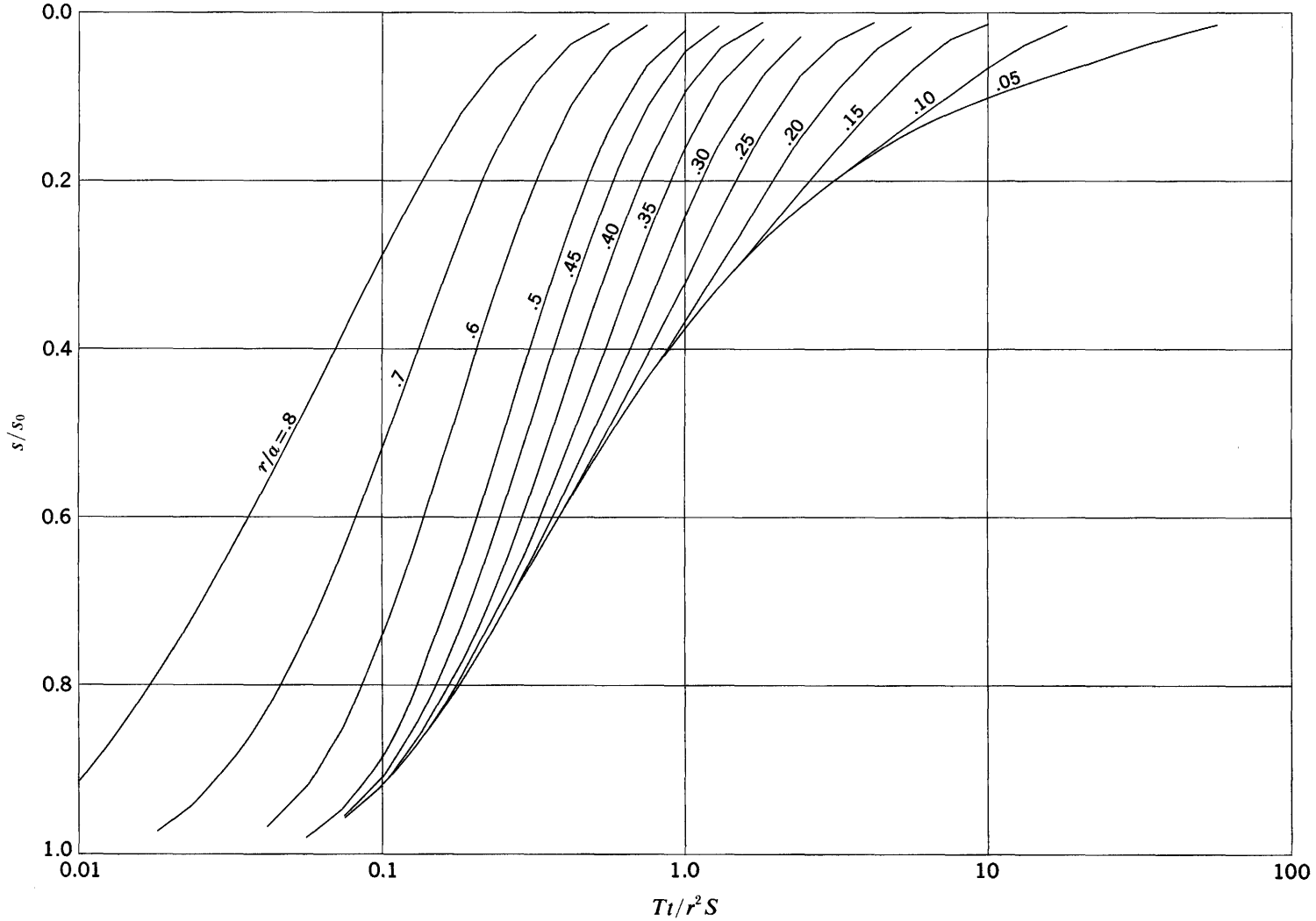
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.20$



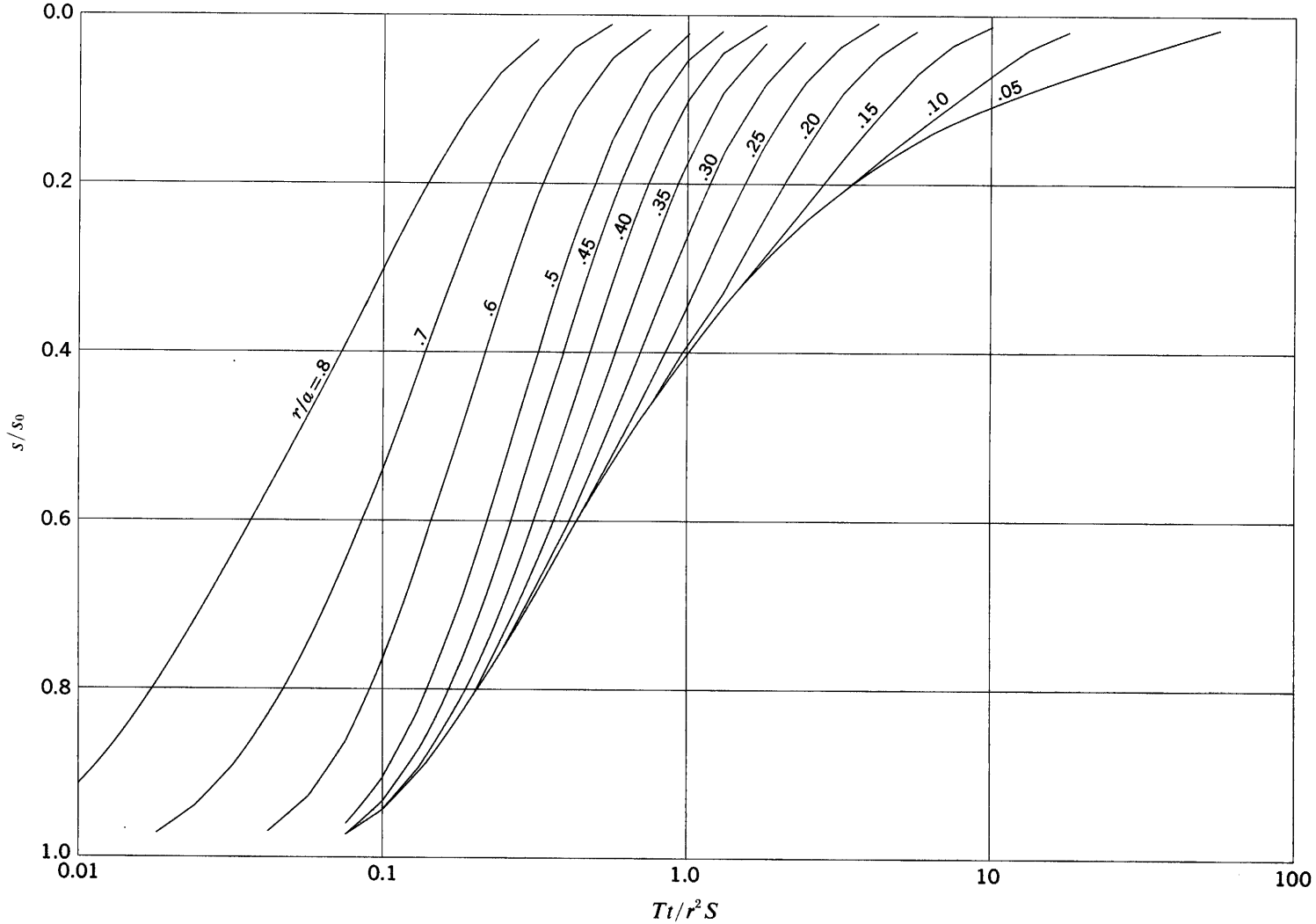
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.25$



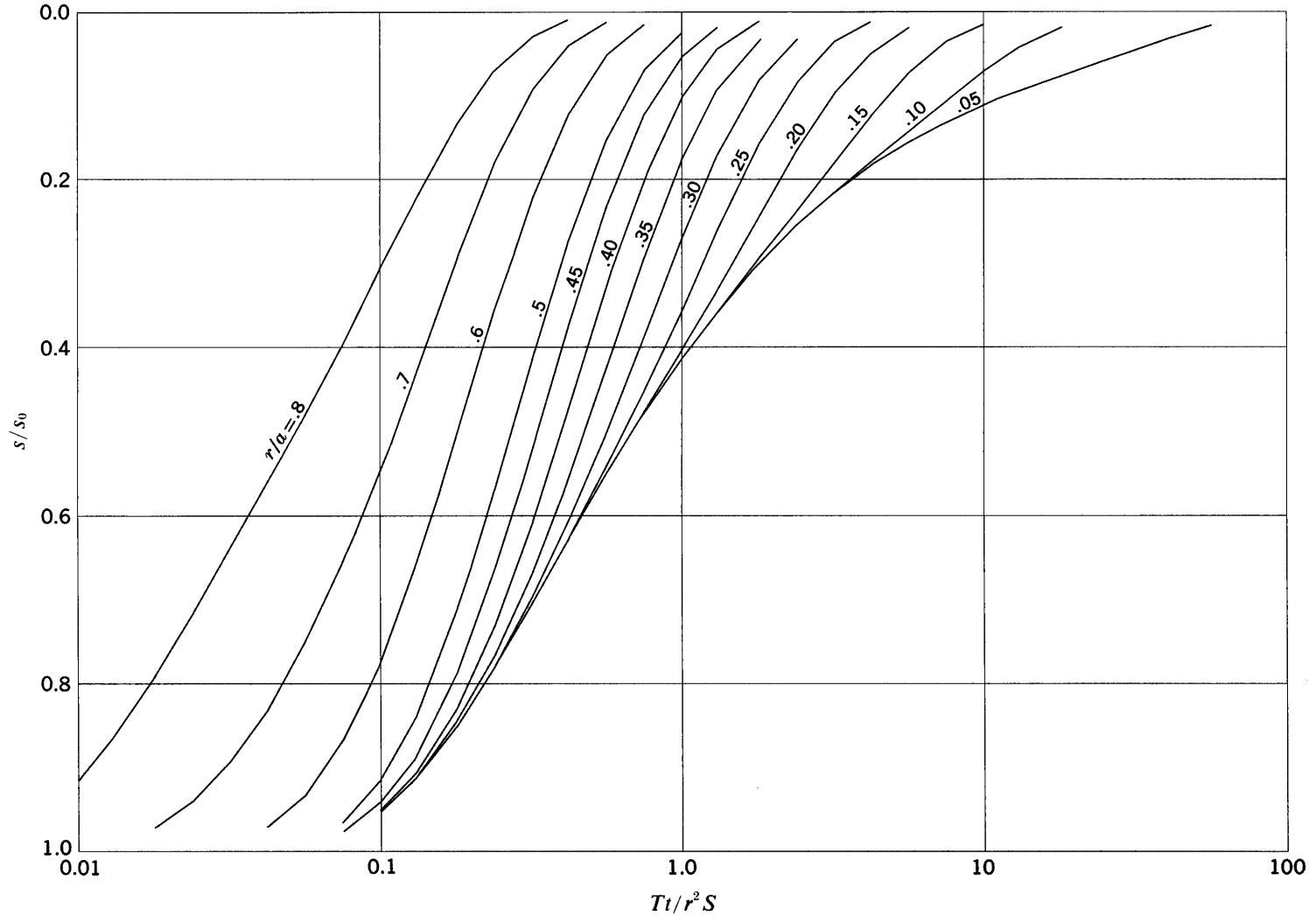
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.30$



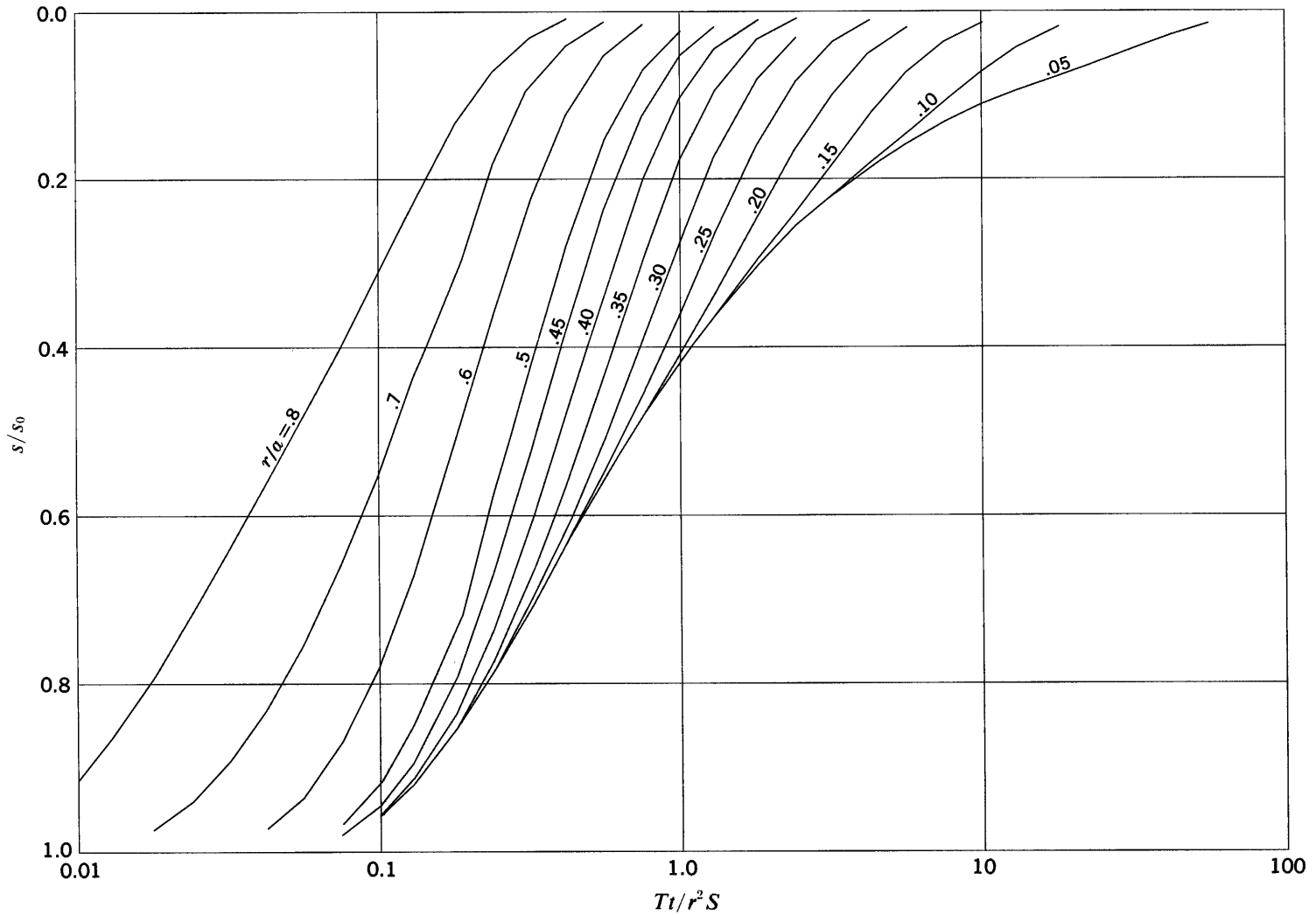
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.35$



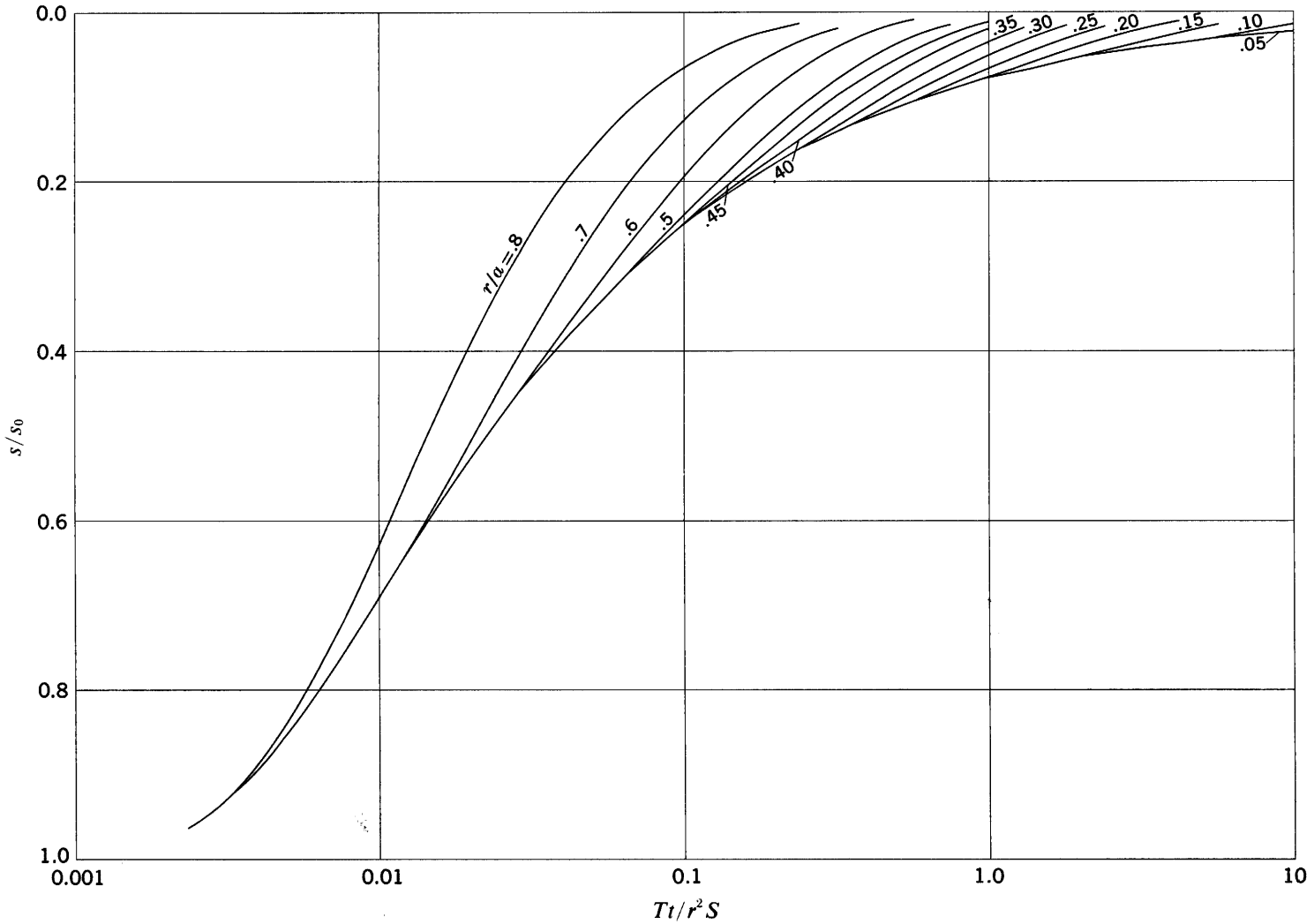
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.40$



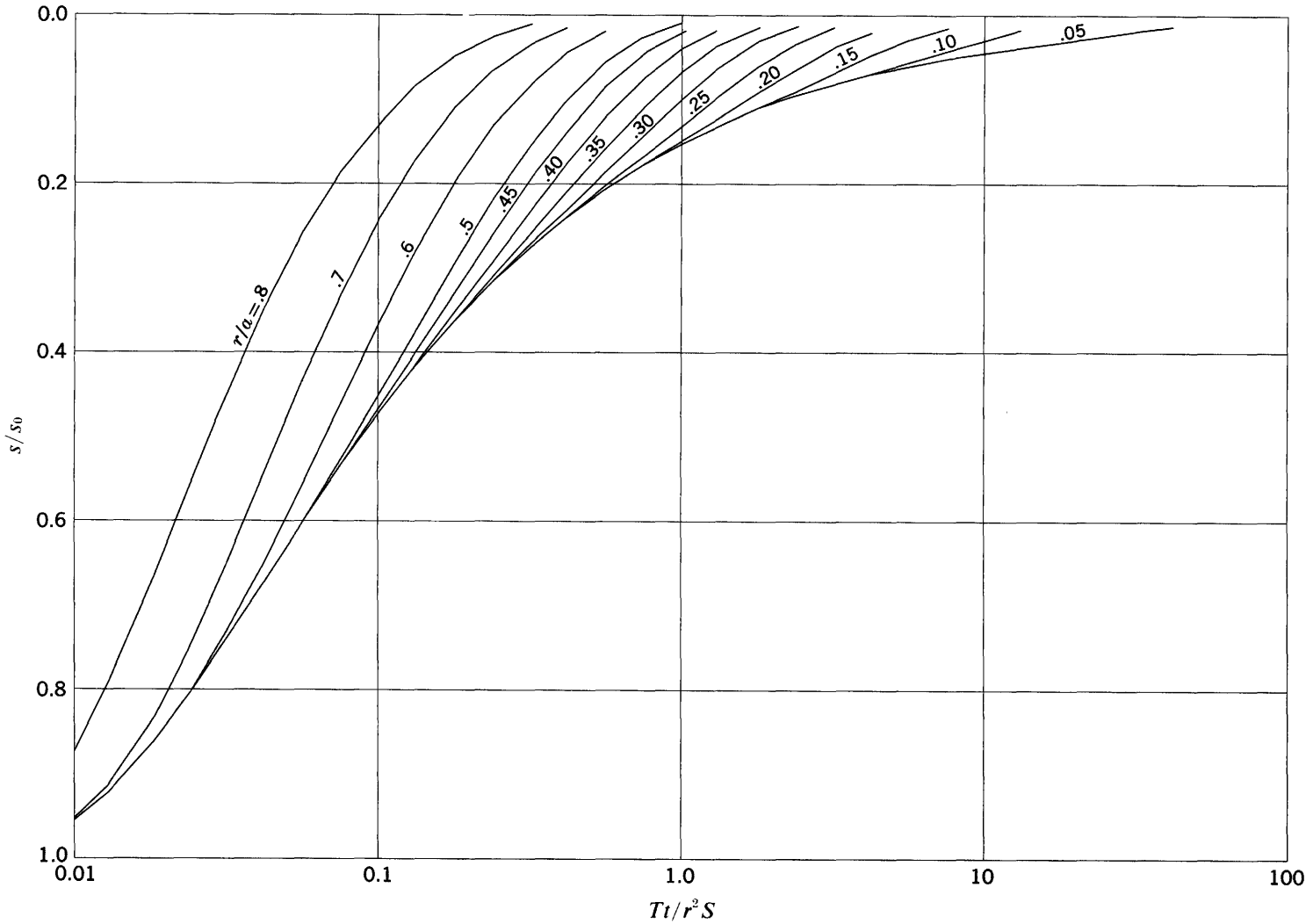
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.45$



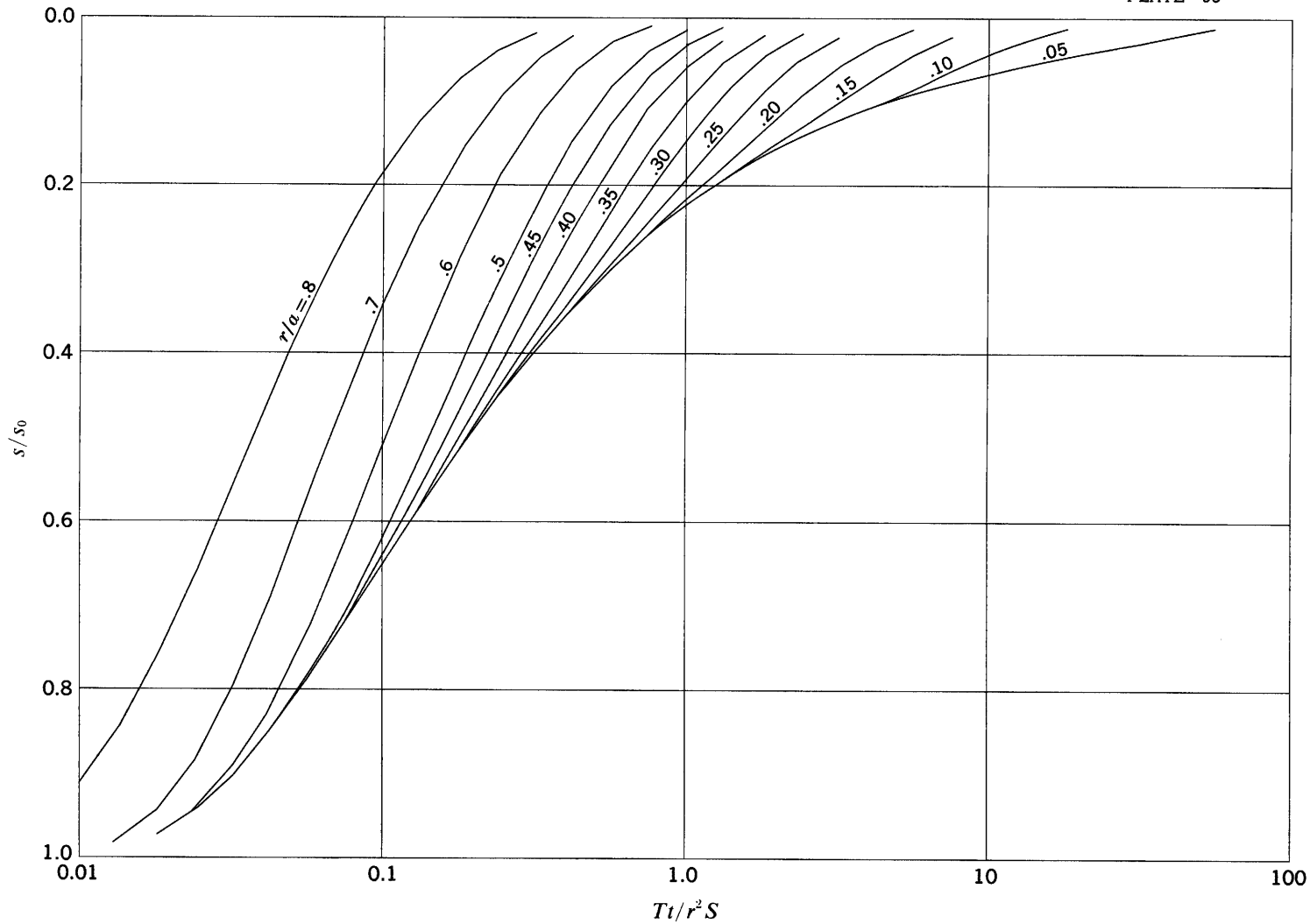
s/s_0 versus Tt/r^2S for $\theta_0 = 150°$; $\theta/\theta_0 = 0.50$



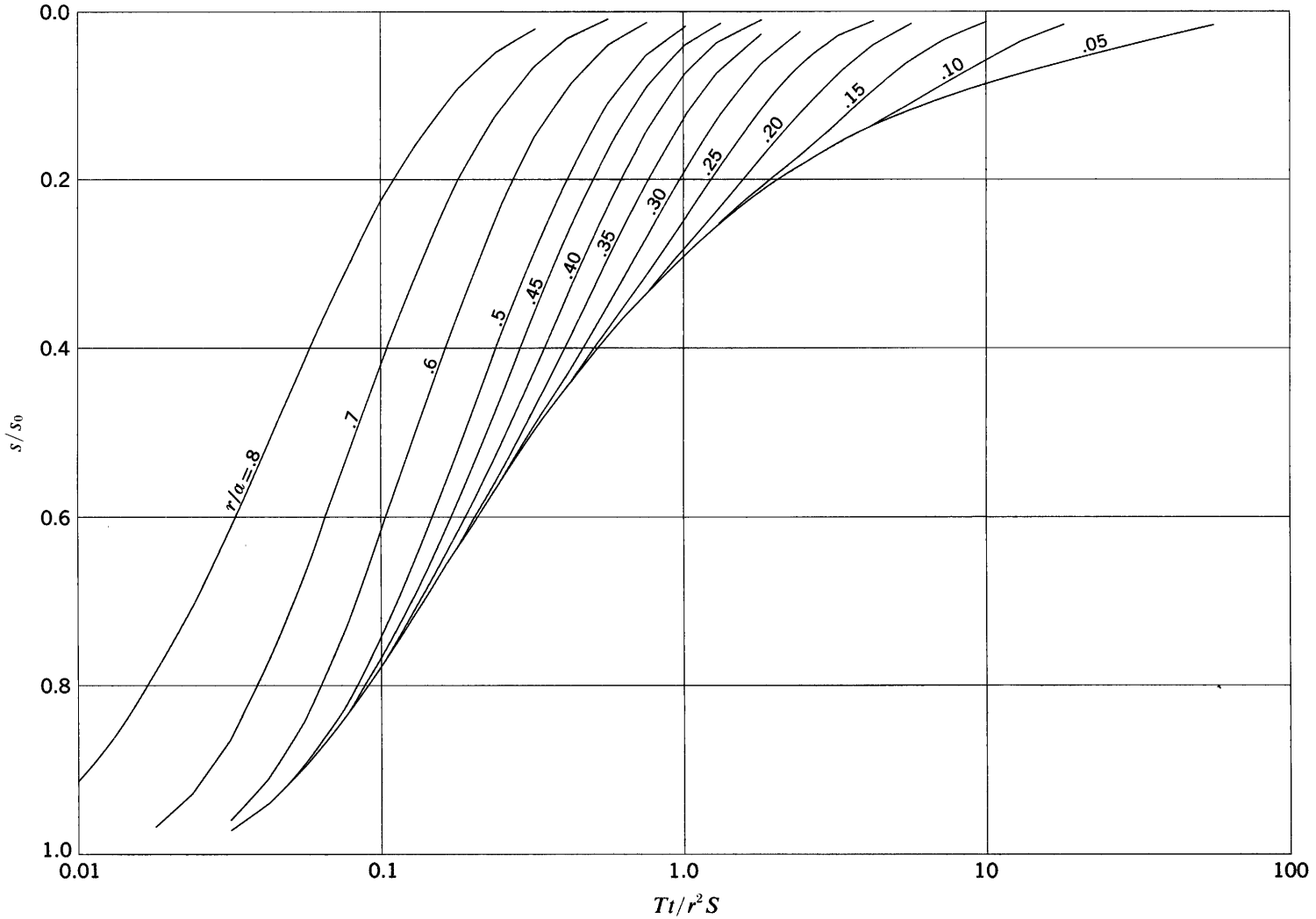
s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.05$



s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.10$



s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.15$



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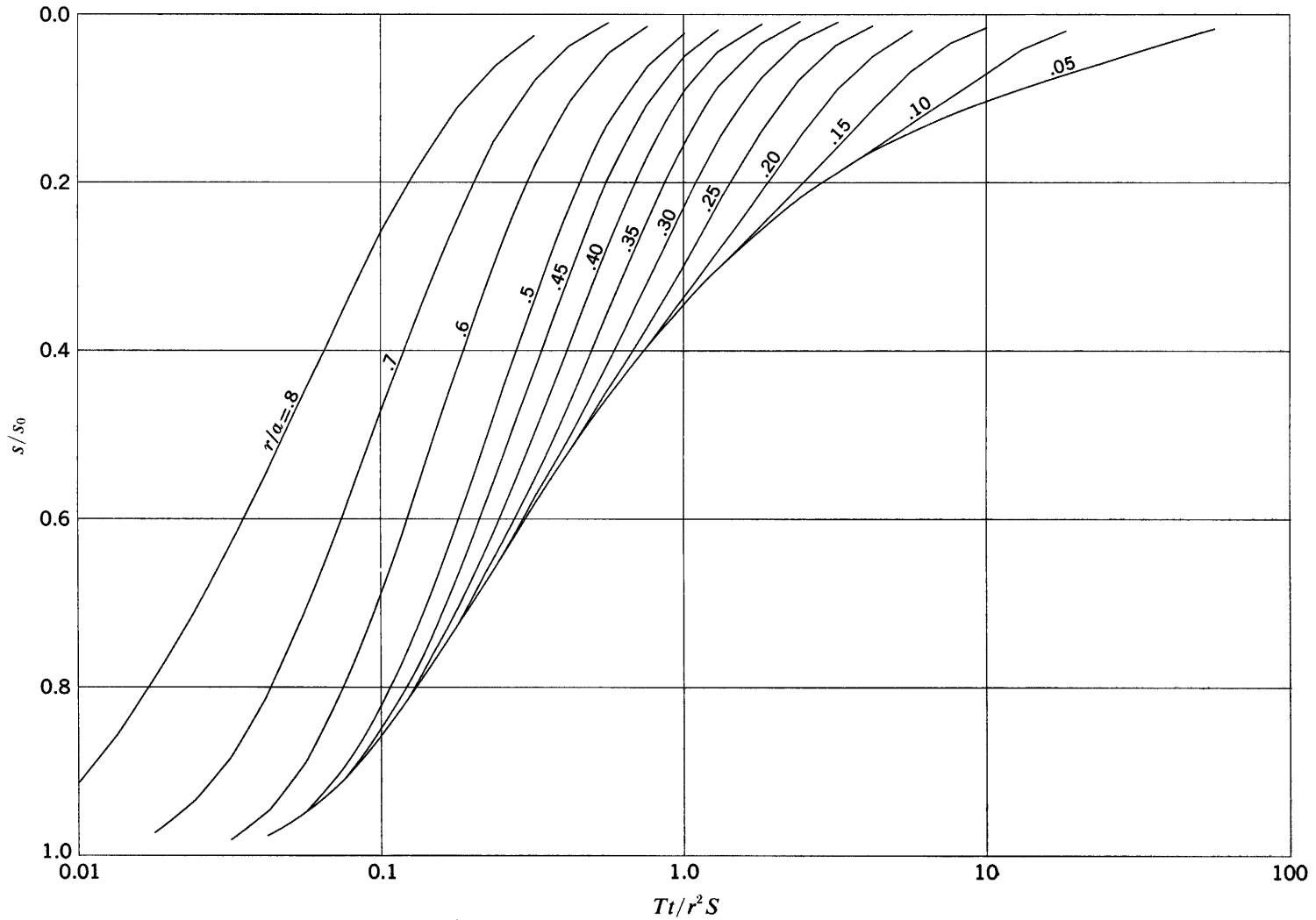
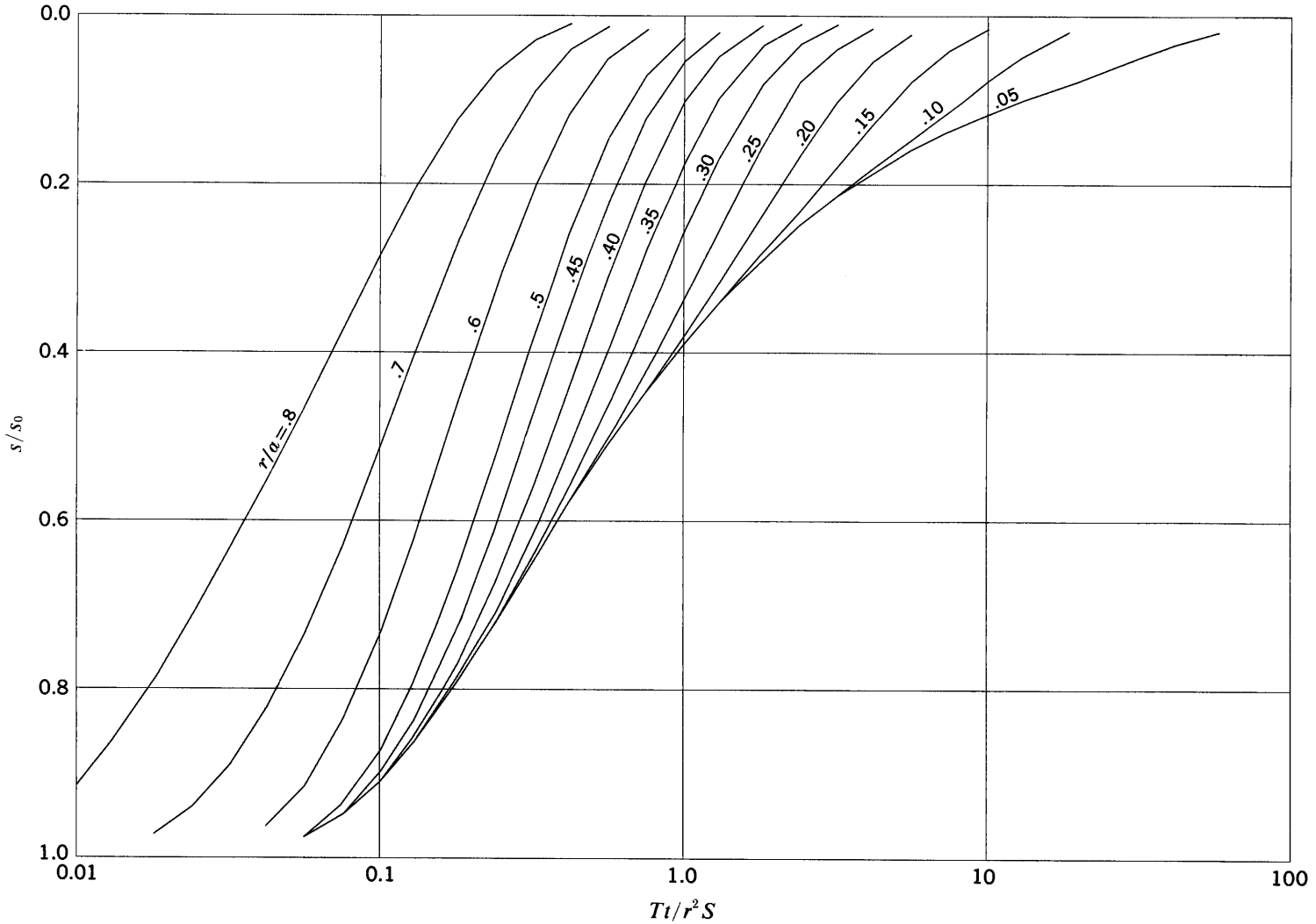
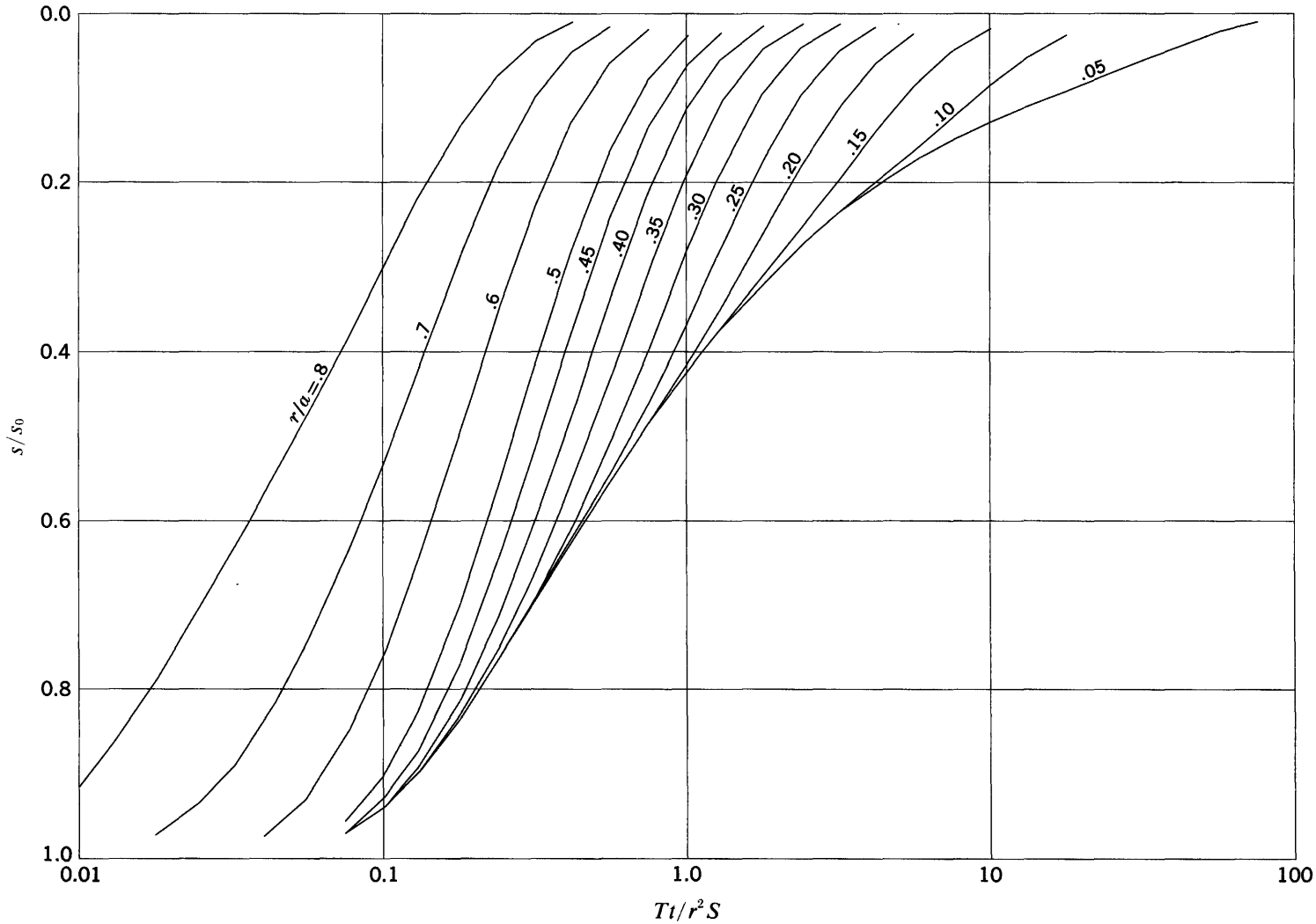


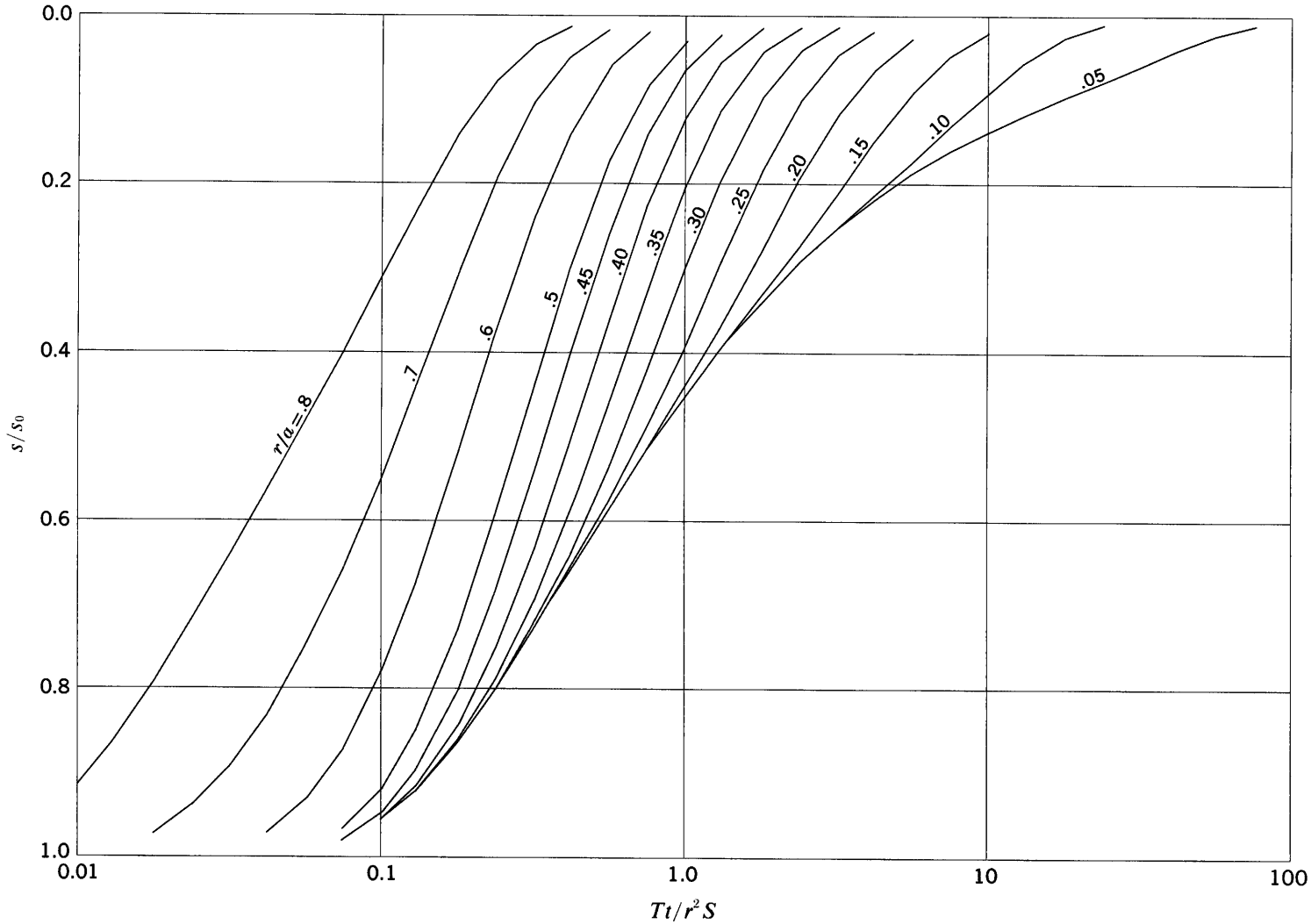
s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.25$



s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.30$



s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.35$



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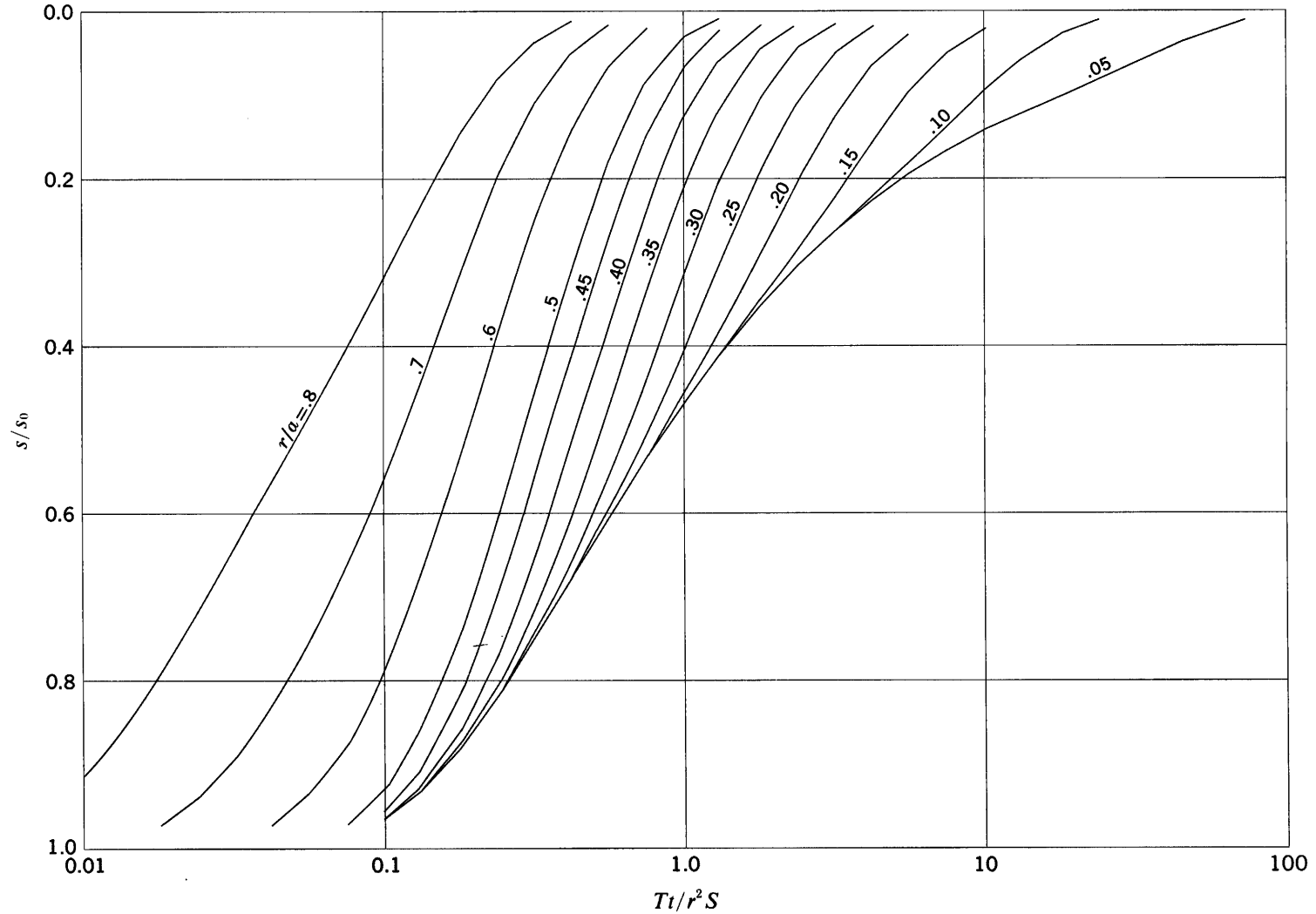
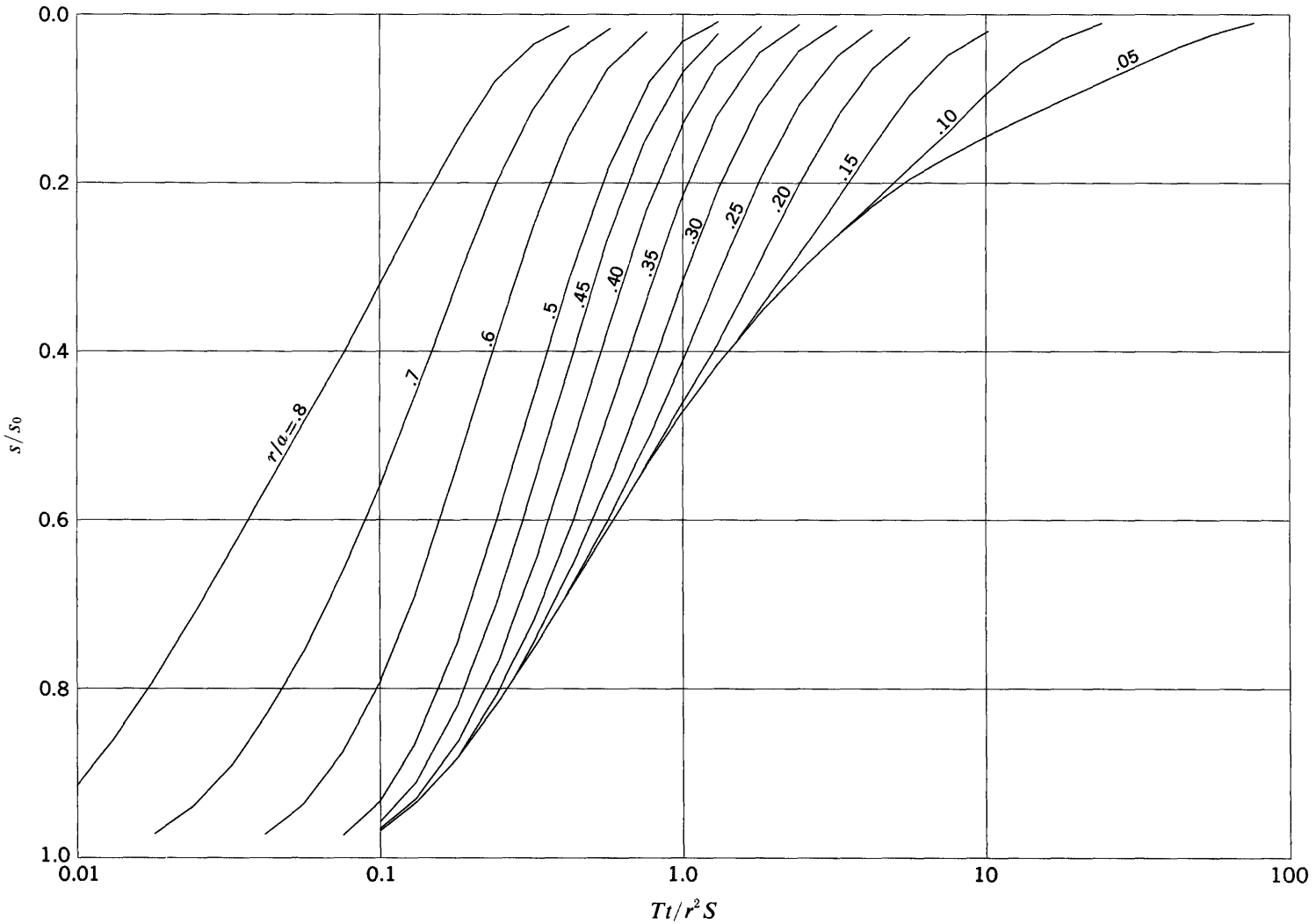
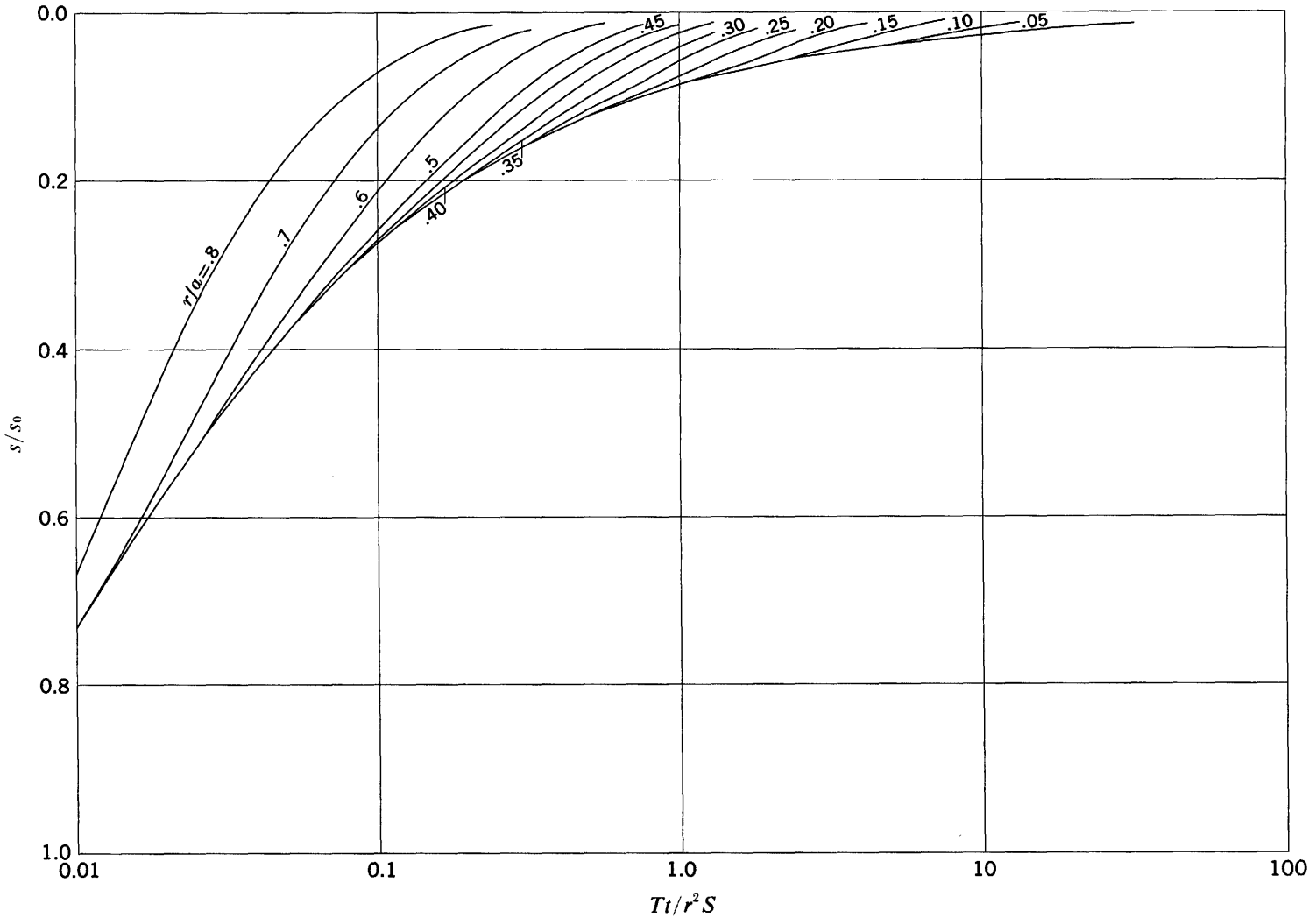


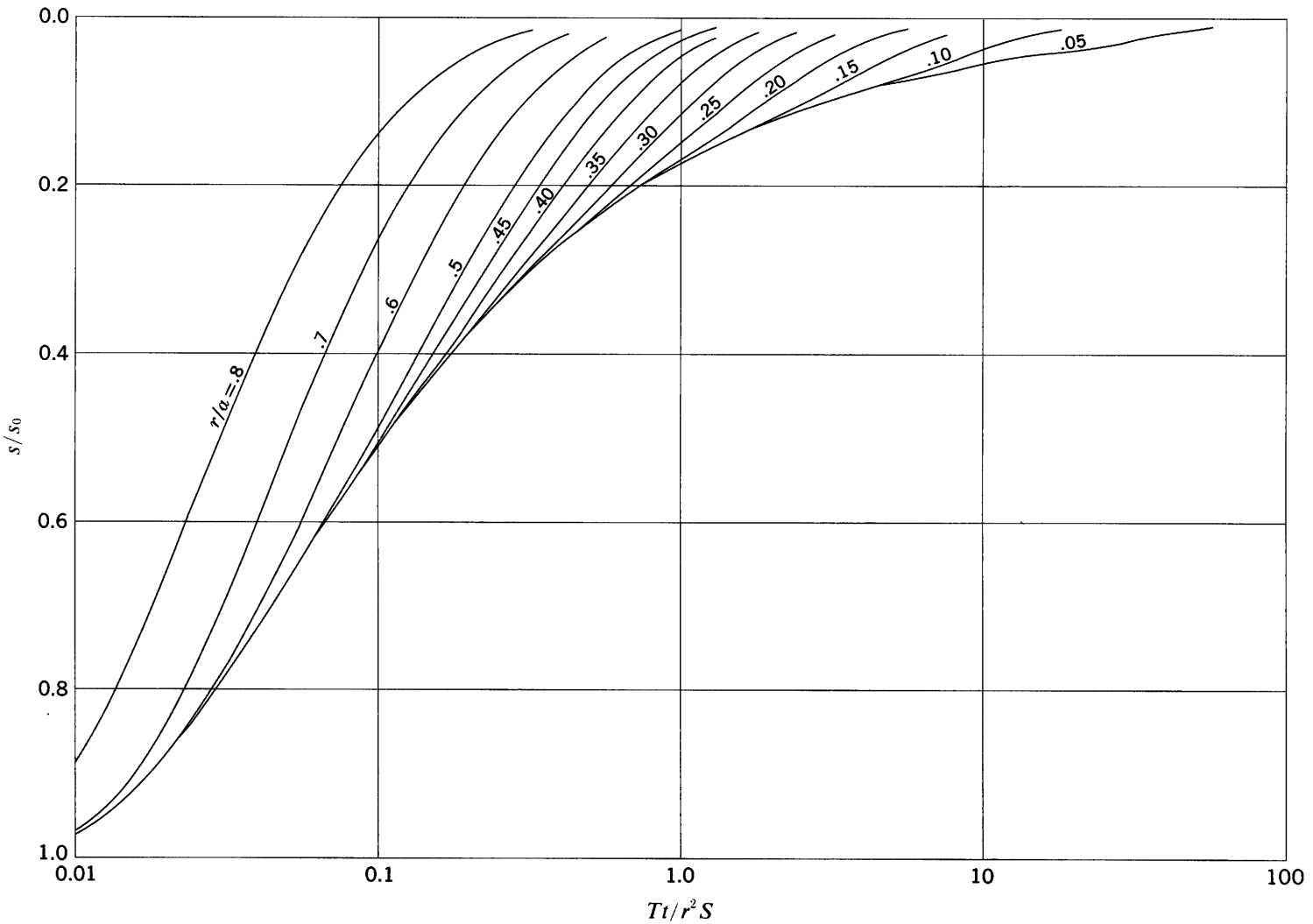
s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.45$



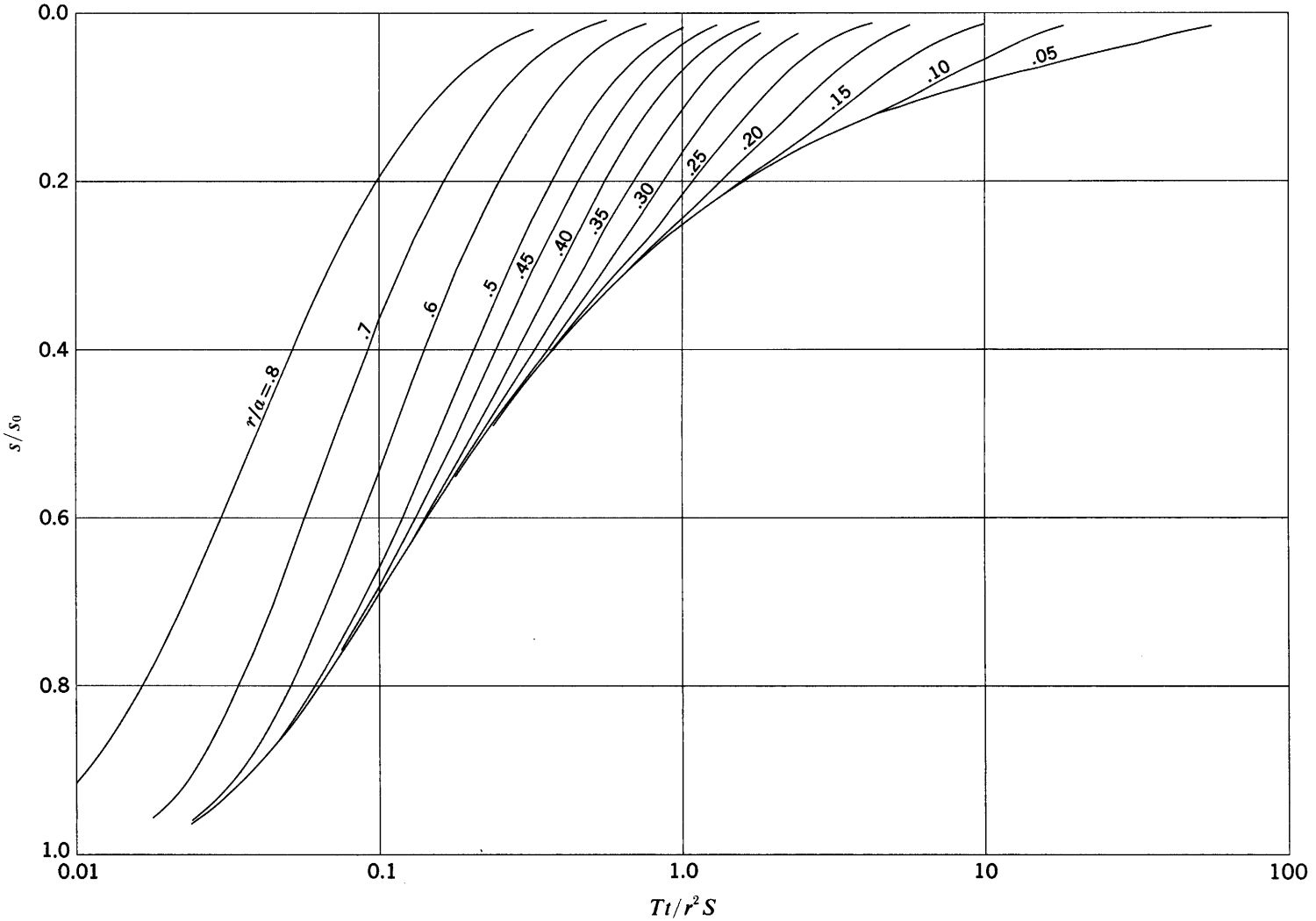
s/s_0 versus Tt/r^2S for $\theta_0 = 165°$; $\theta/\theta_0 = 0.50$



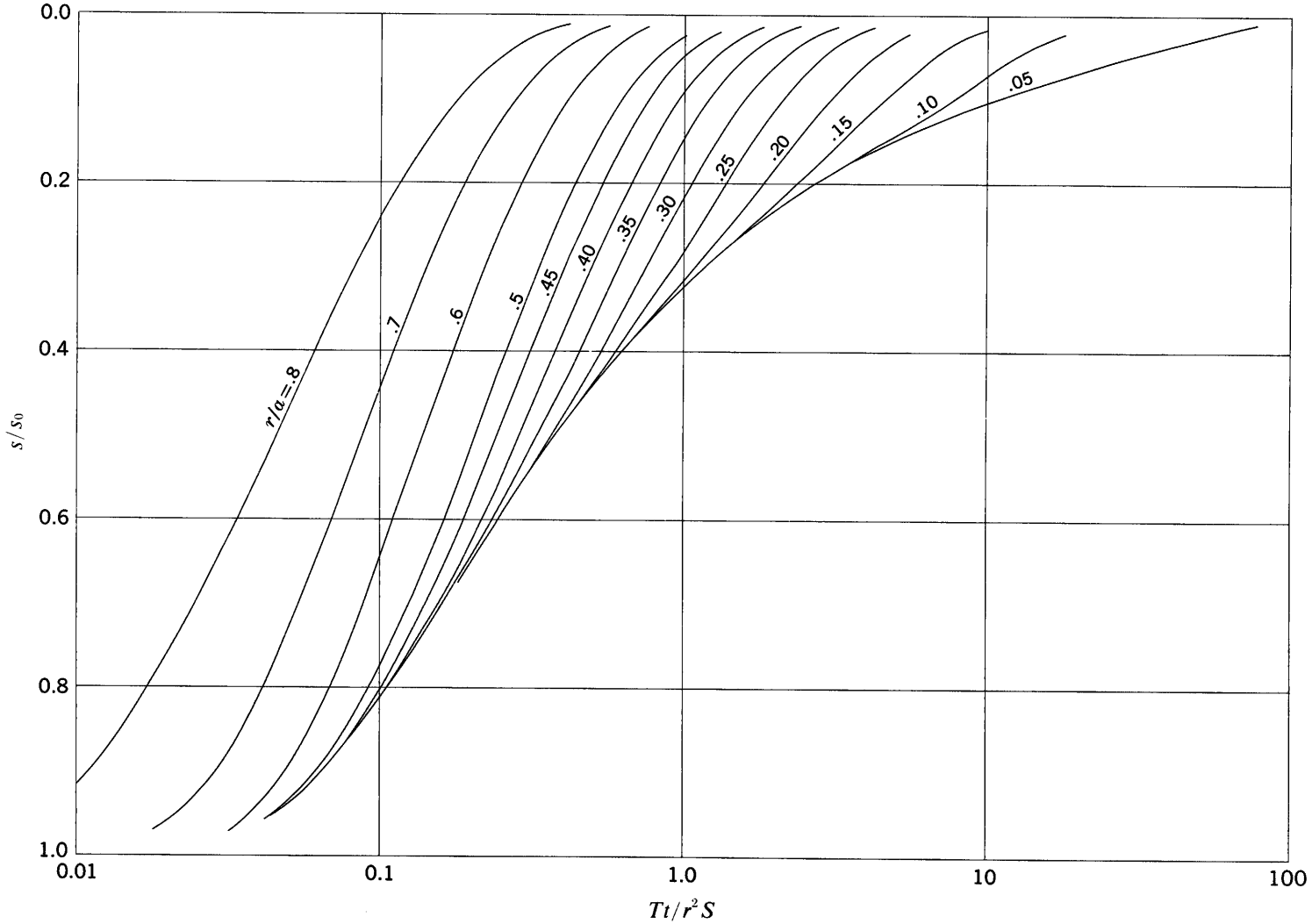
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.05$



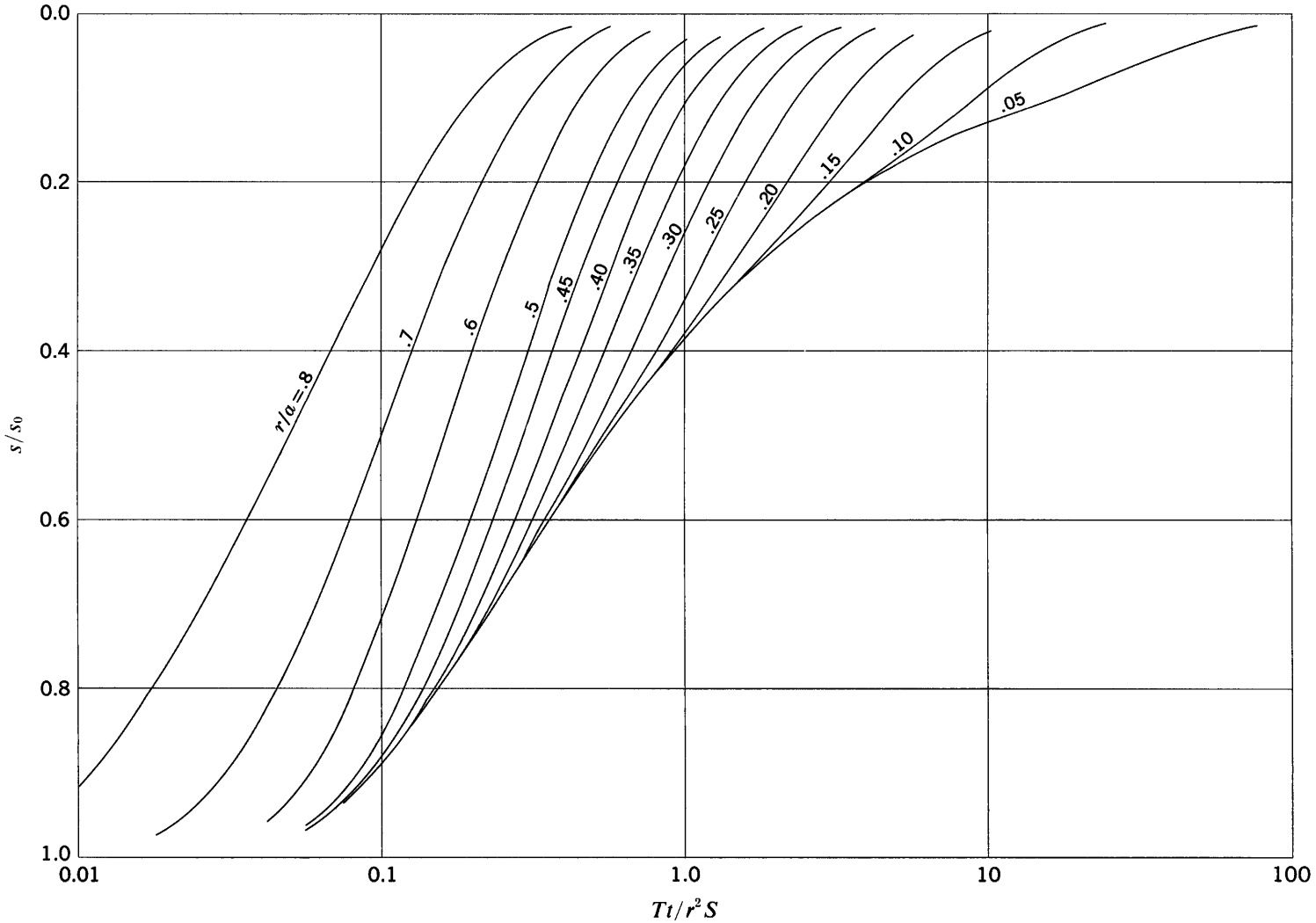
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.10$



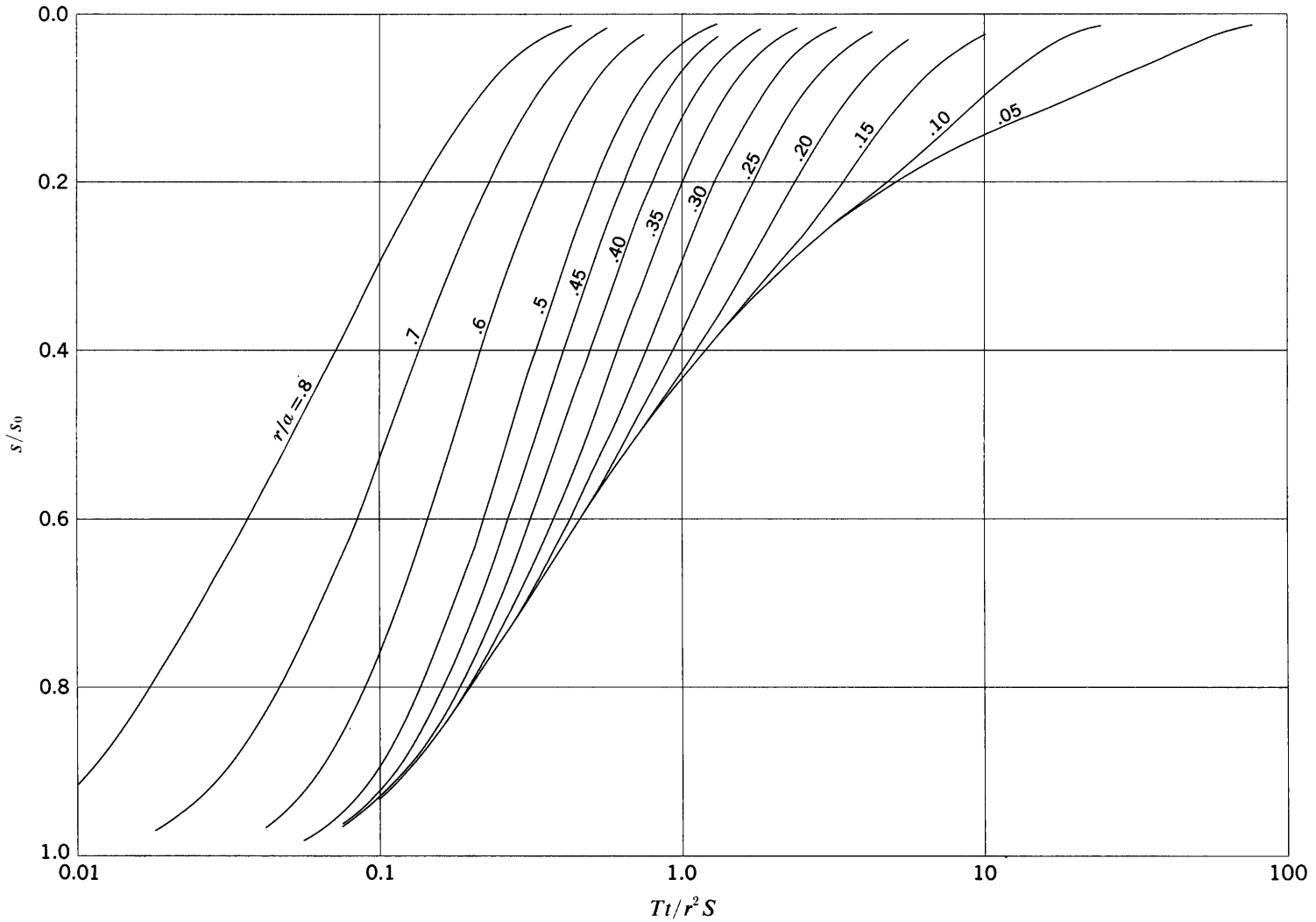
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.15$



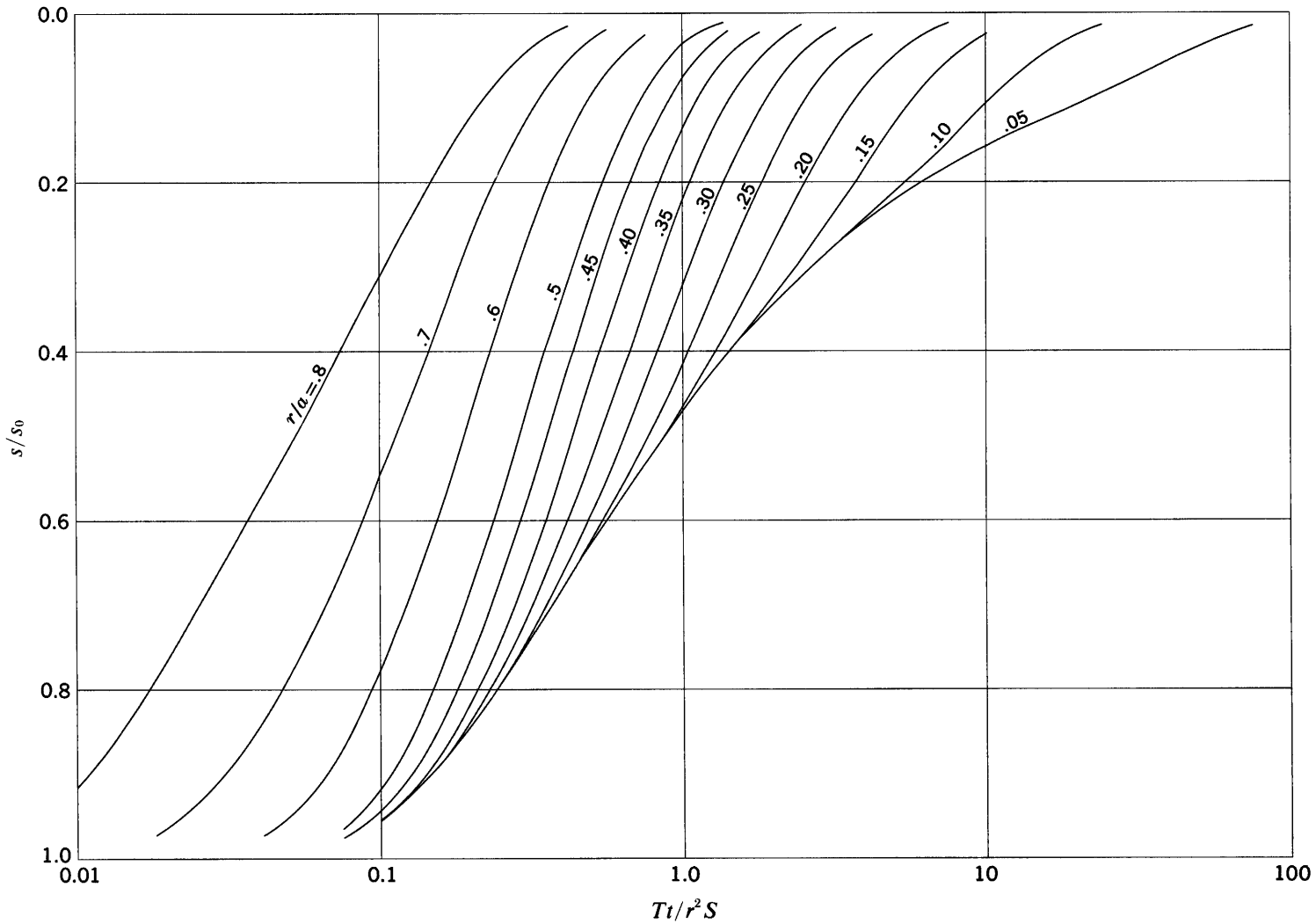
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.20$



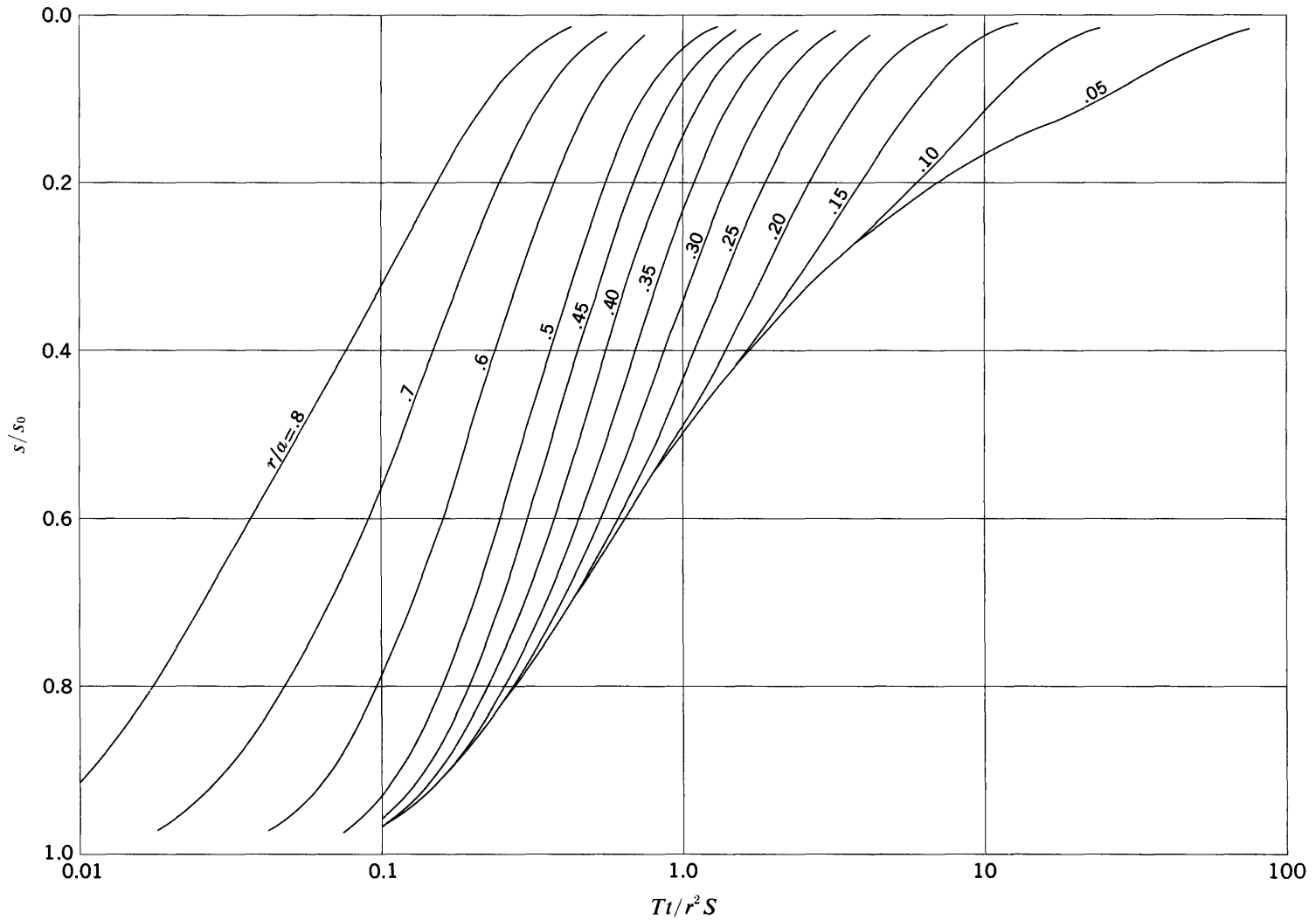
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.25$



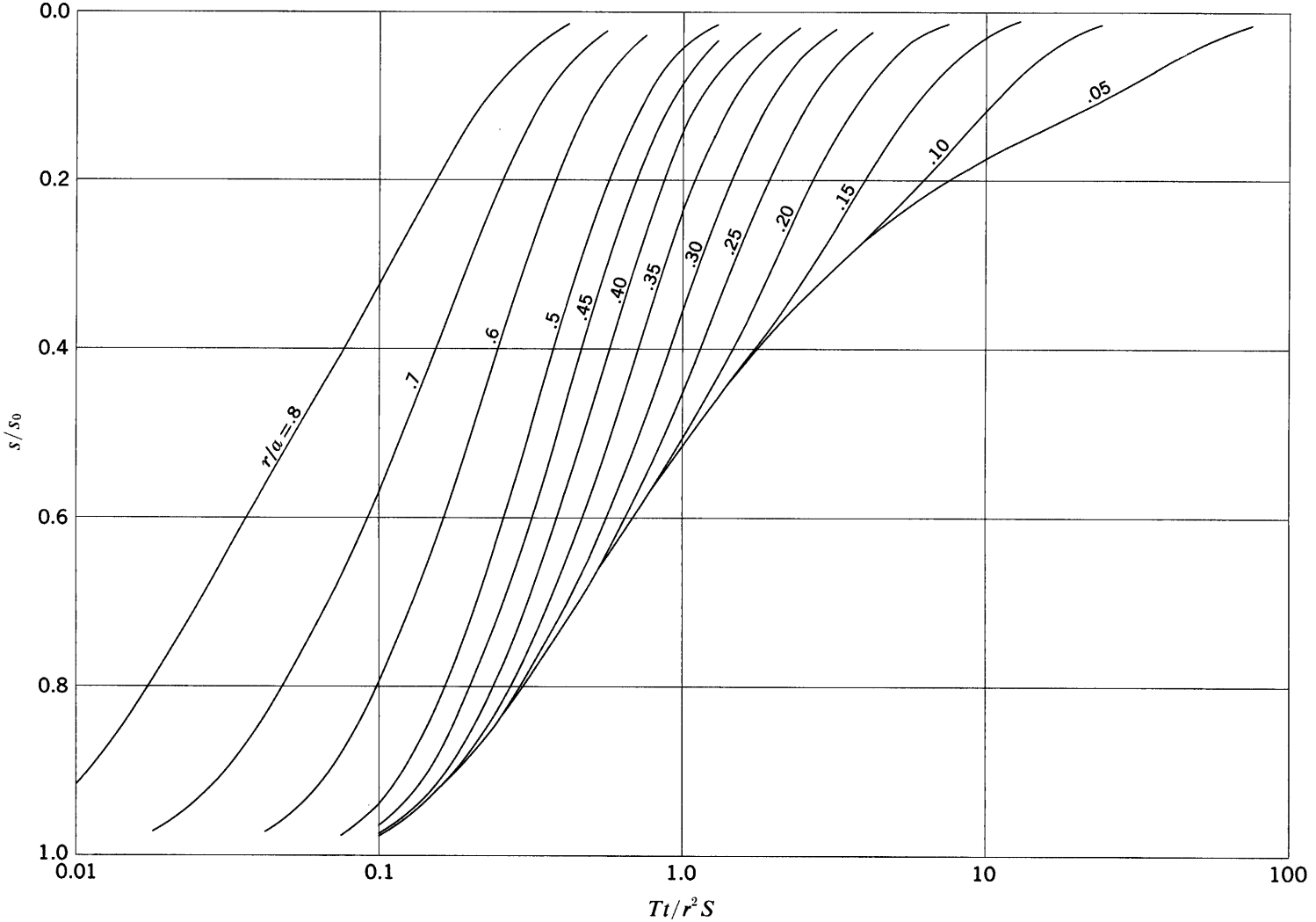
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.30$



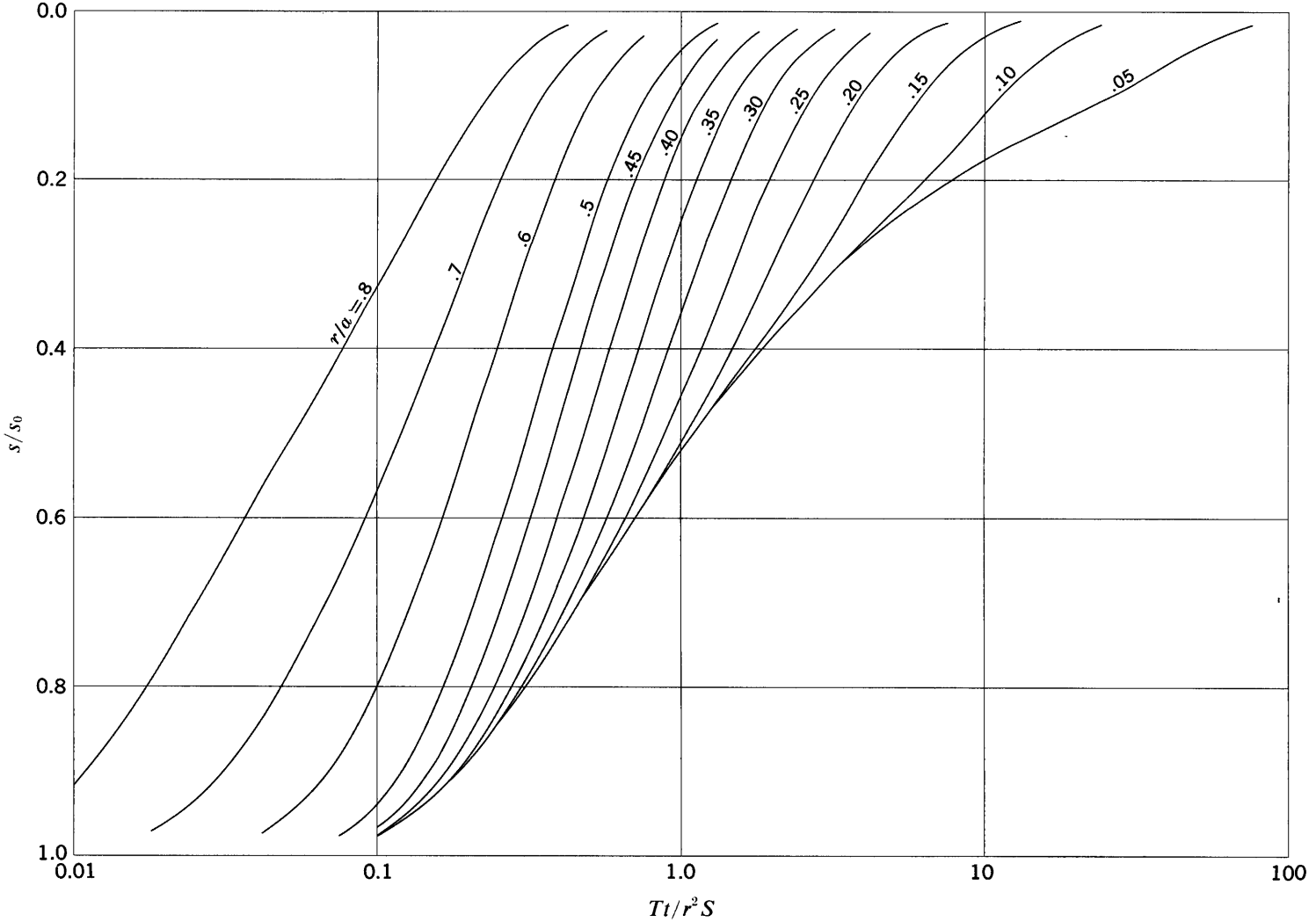
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.35$



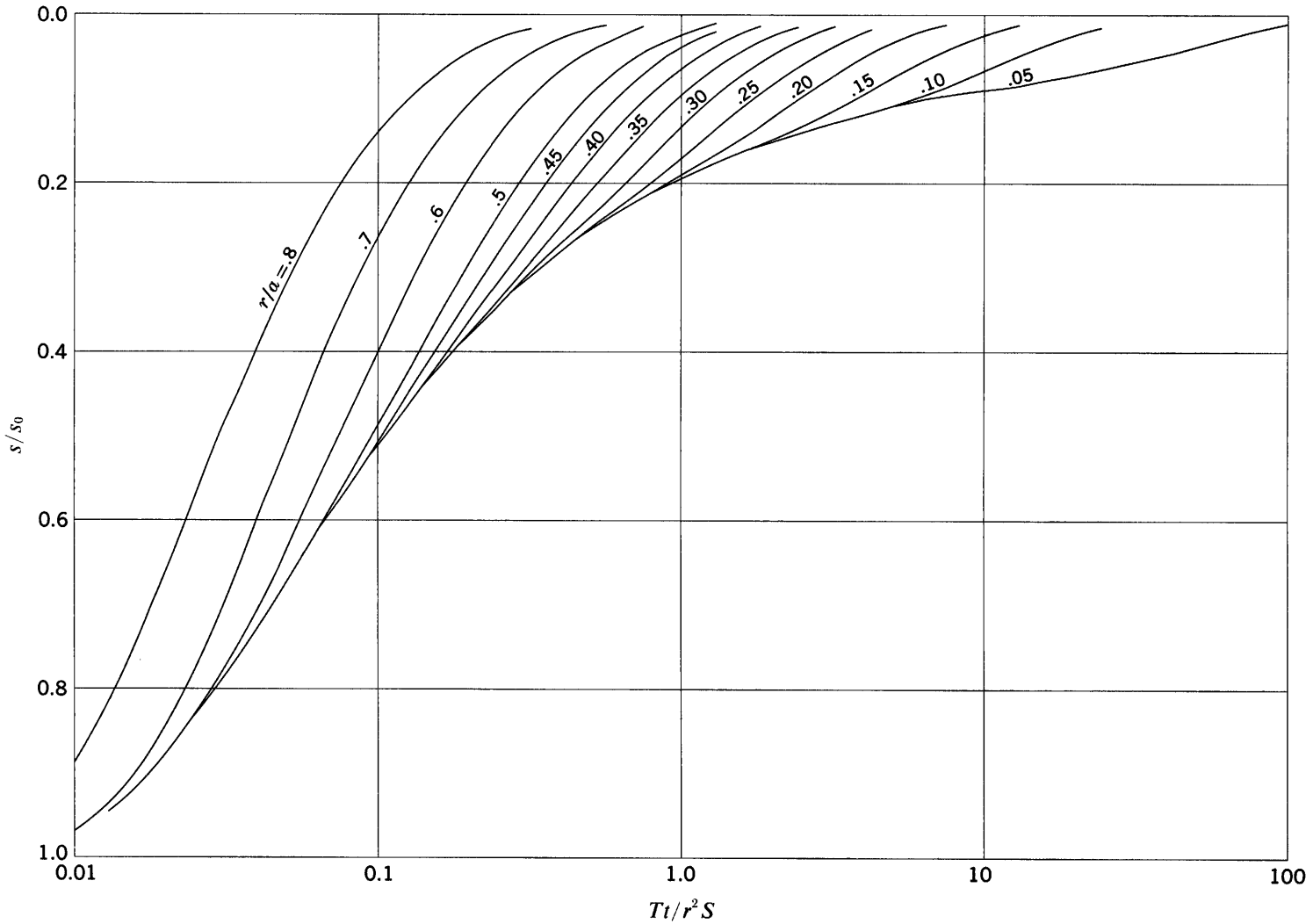
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.40$



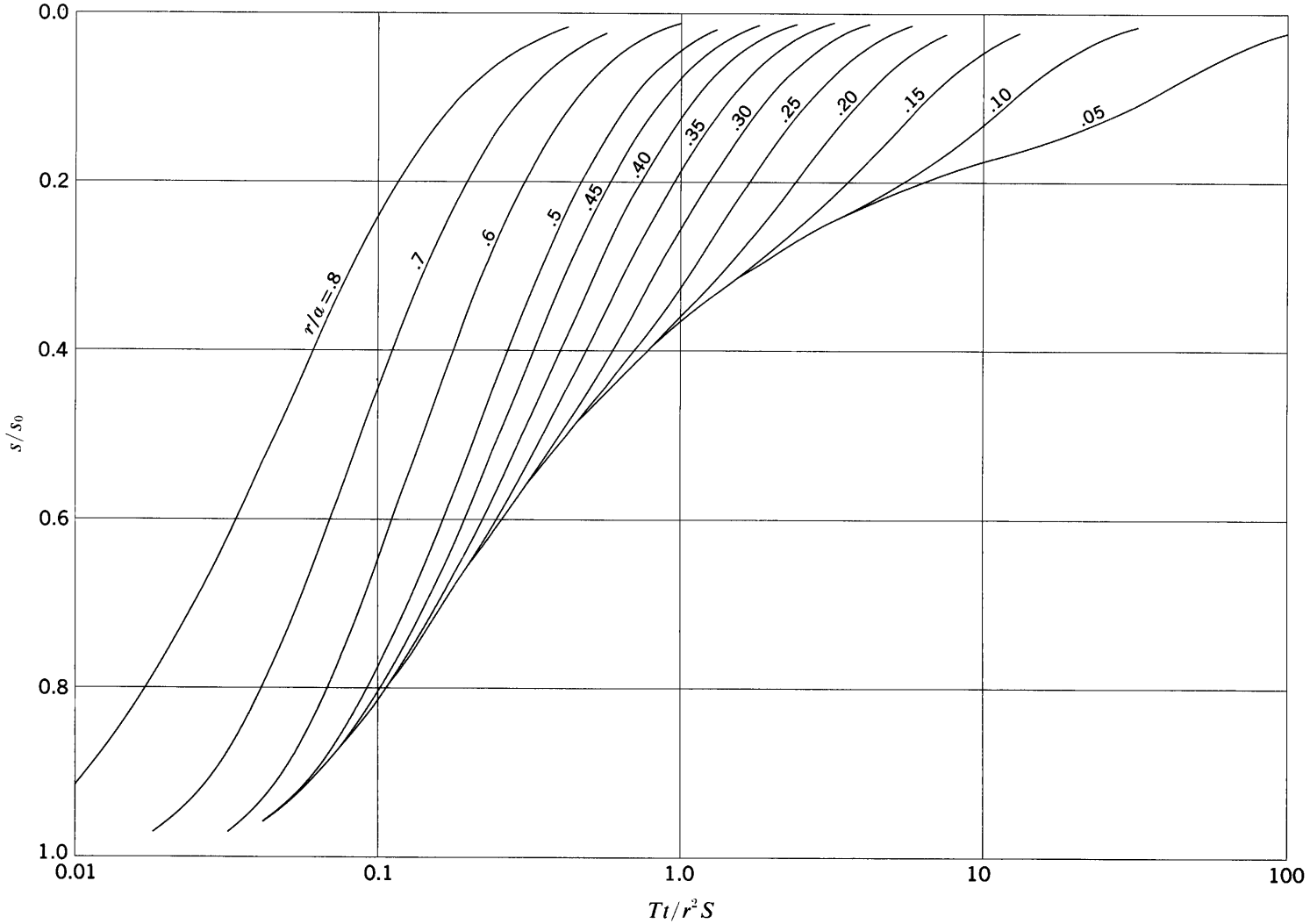
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.45$



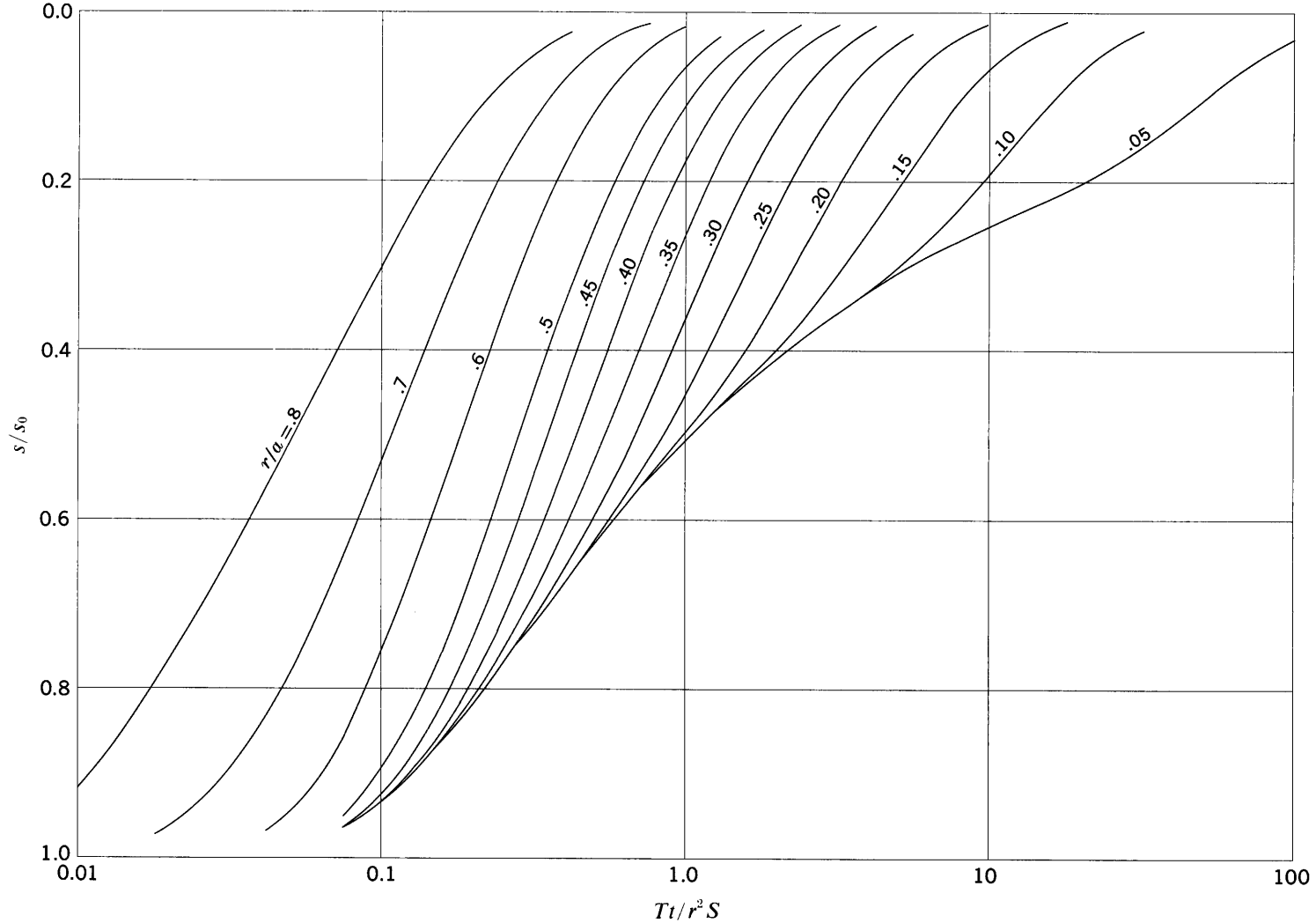
s/s_0 versus Tt/r^2S for $\theta_0 = 180°$; $\theta/\theta_0 = 0.50$



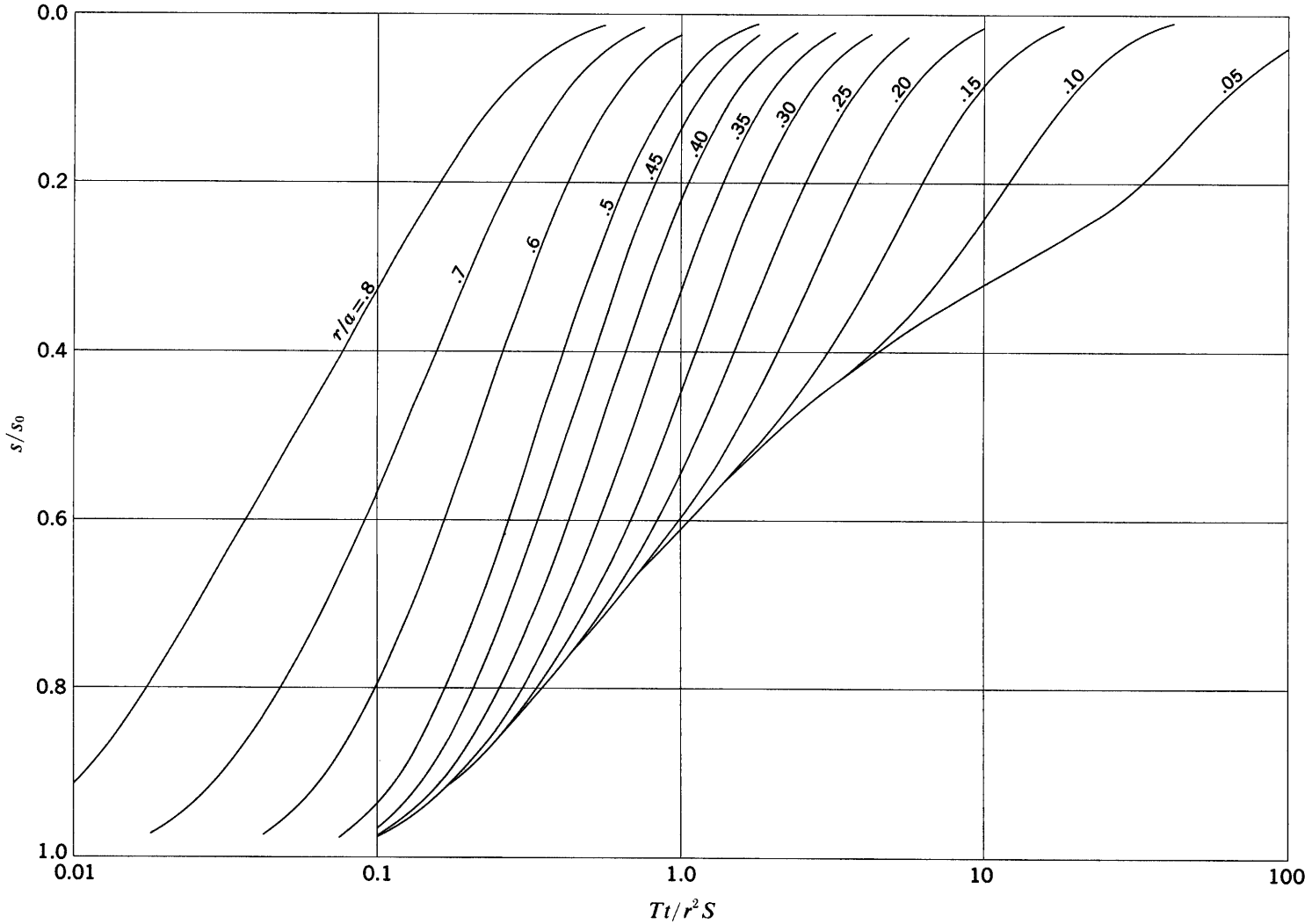
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.05$



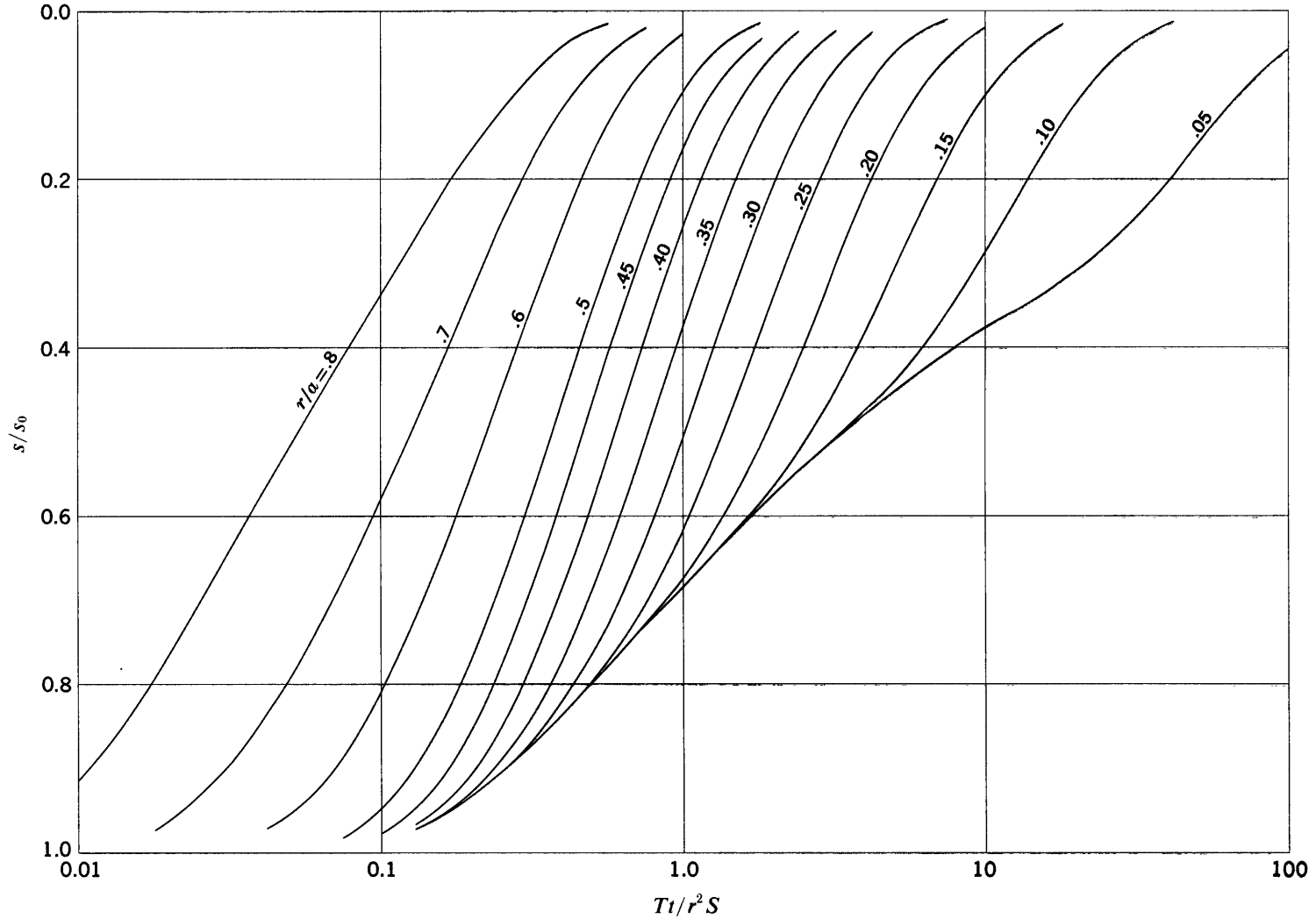
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.10$



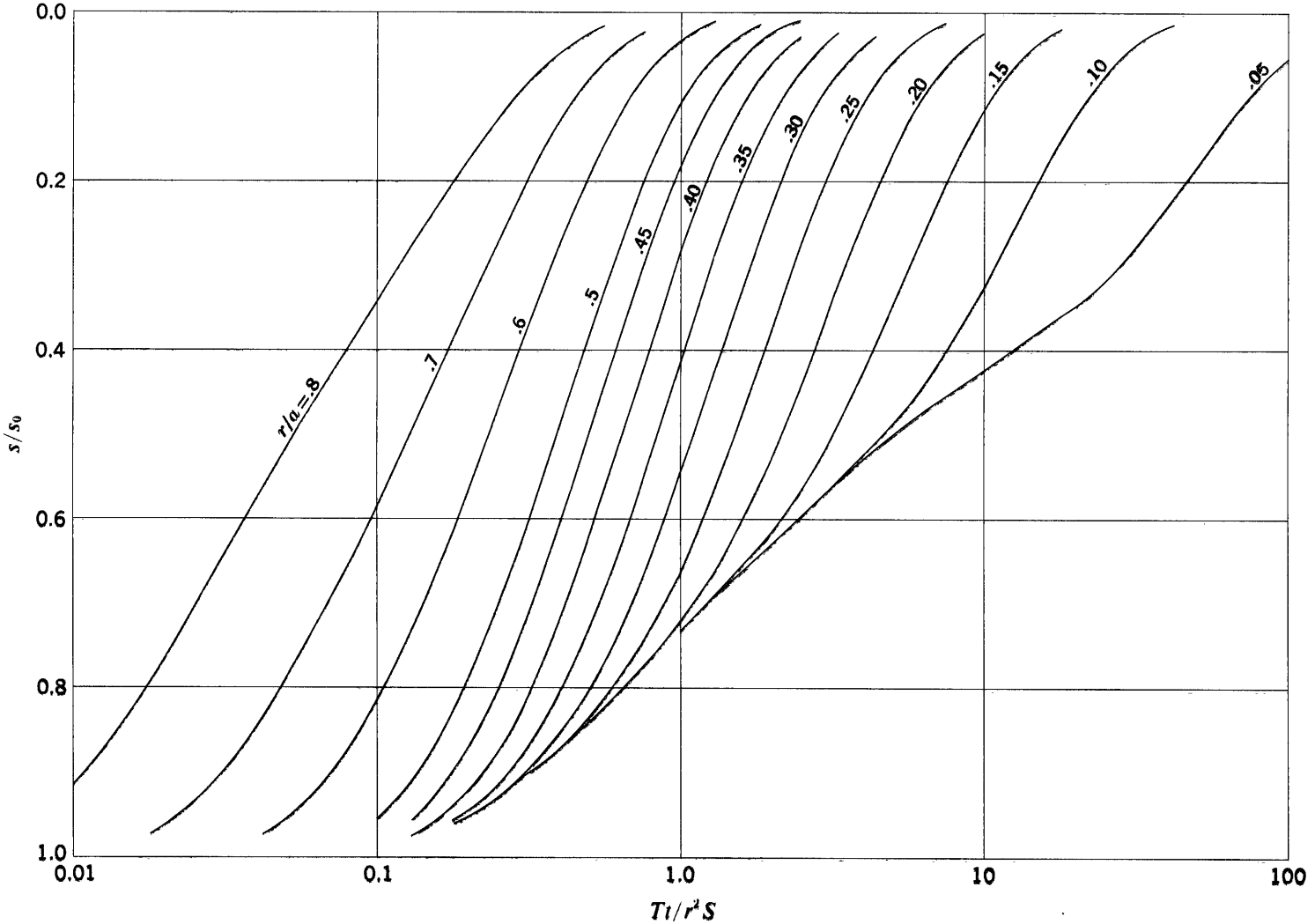
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.15$



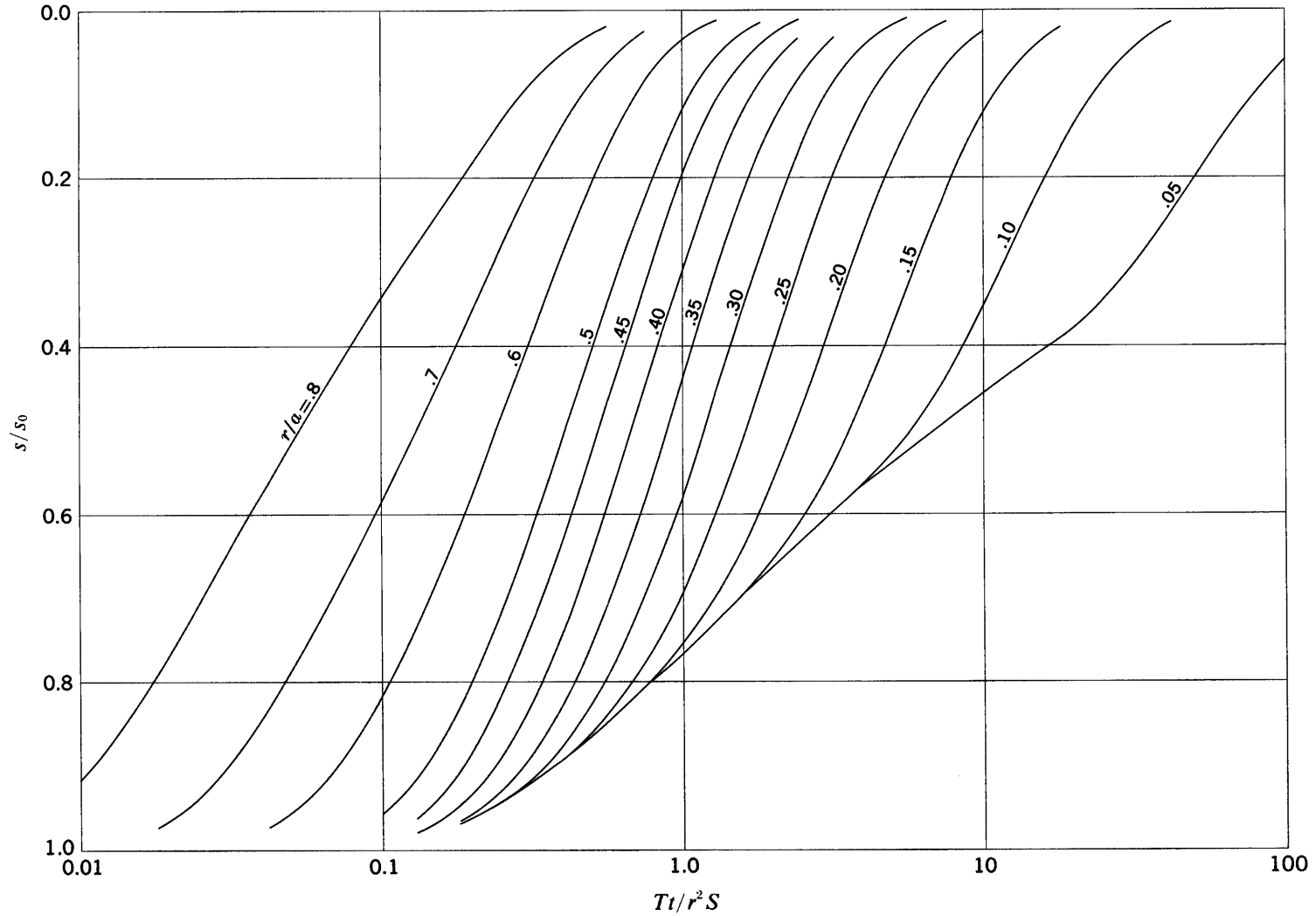
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.20$



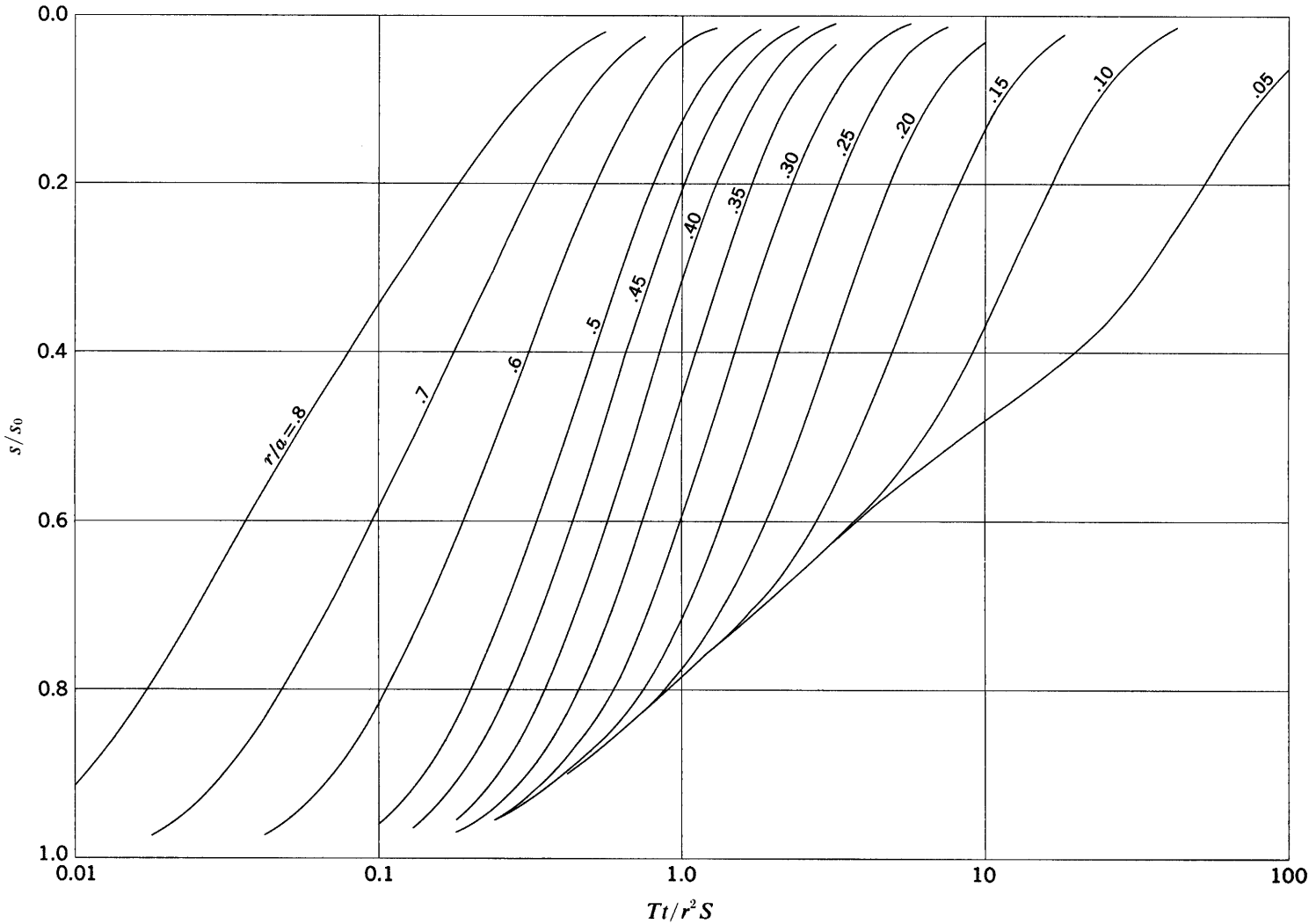
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.25$



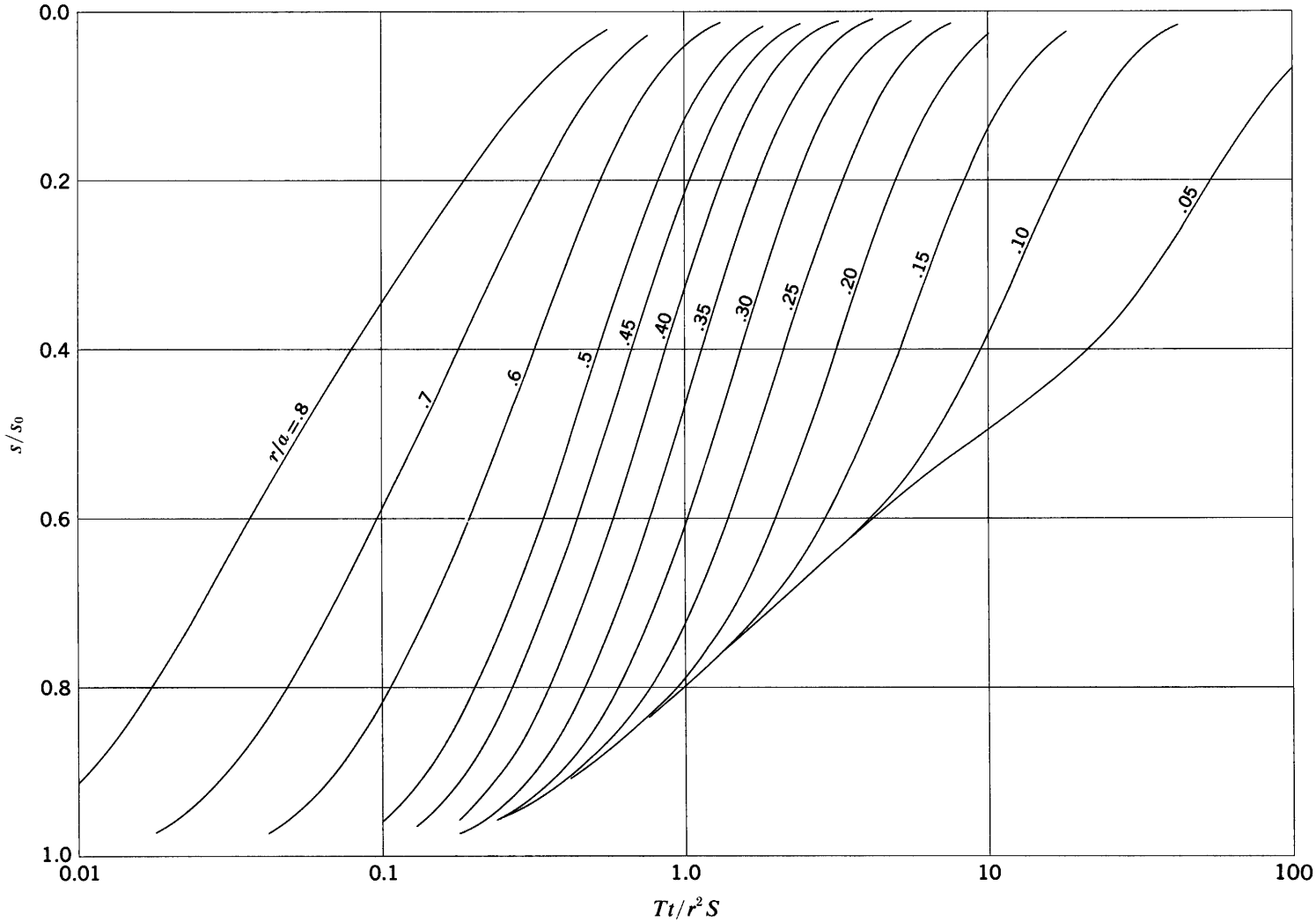
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.30$



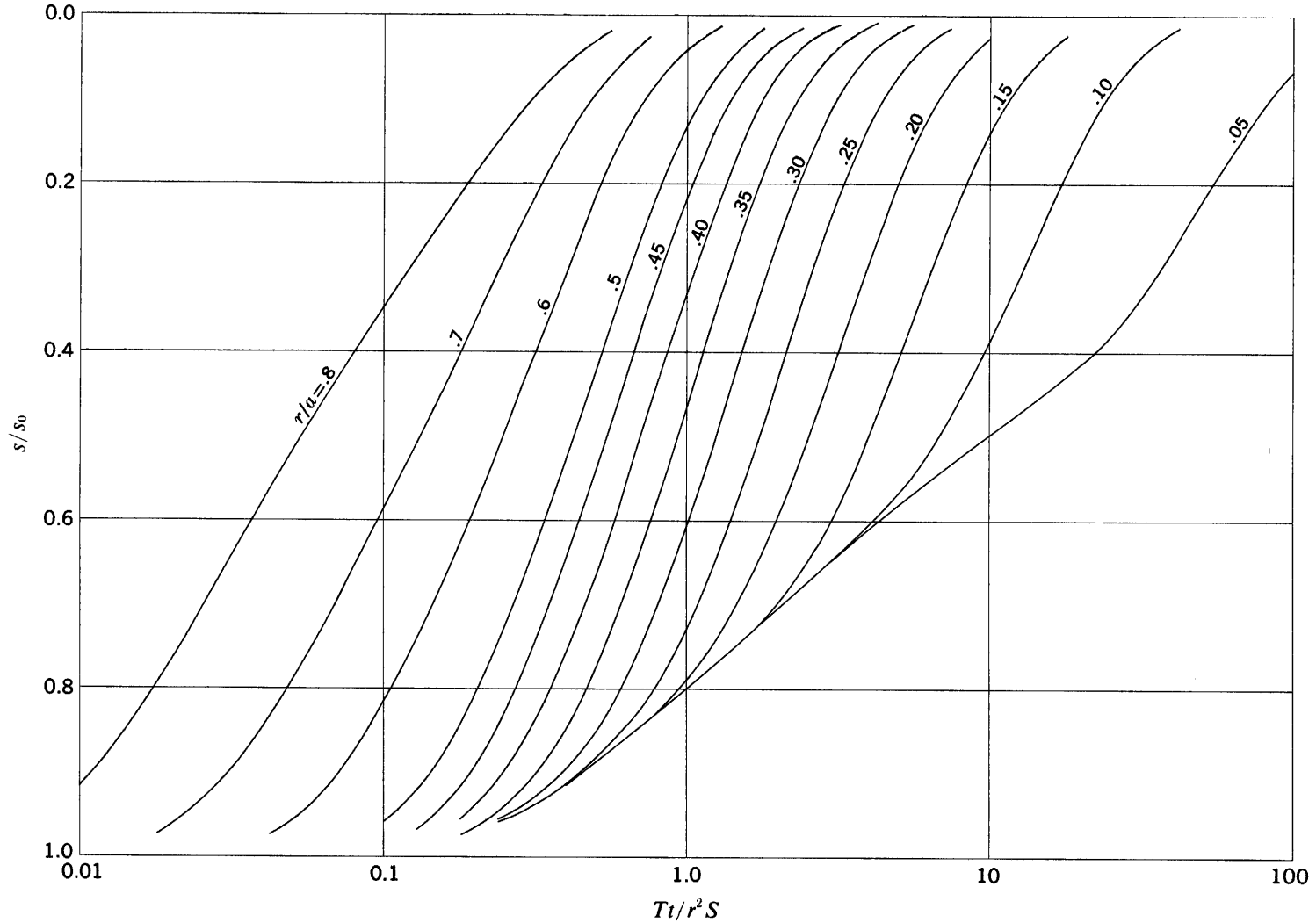
s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.35$



s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.40$



s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.45$



s/s_0 versus Tt/r^2S for $\theta_0 = 360°$; $\theta/\theta_0 = 0.50$