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Selected Bibliography on Laboratory and Field Methods in Ground-Water Hydrology

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1779-Z



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By A. I. JOHNSON

CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1779-Z



UNITED STATES DEPARTMENT OF THE INTERIOR

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CONTRIBUTIONS TO THE HYDROLOGY OF THE UNITED STATES

SELECTED BIBLIOGRAPHY ON LABORATORY AND FIELD METHODS IN GROUND-WATER HYDROLOGY

By A. I. JOHNSON

INTRODUCTION

The science of ground-water hydrology is concerned with the evaluation both of the occurrence, availability, and quality of ground water and of the interrelationship between ground water and surface water. To accomplish such evaluation, this science requires the utilization of a wide variety of laboratory and field methods—not only those unique to ground-water hydrology, but also those peculiar to such other scientific disciplines as mathematics, physics, soil mechanics, soil physics, geology, and hydraulics.

Studies of ground-water hydrology are advancing so rapidly that many scientists working in this field find it difficult to keep abreast of current literature. Young hydrologists just beginning to explore this scientific field can greatly benefit from some basic and advanced reports on methodology. Also, hydrologists from other countries who have received training in the United States have expressed interest in learning of such literature. Thus, this bibliography was prepared to make the references readily available to meet the needs discussed above.

References are listed in alphabetical order under headings representing the main topic of the publication. This selection of references emphasizes papers and book reports from the United States, although it includes a few from other countries. It is by no means complete, as the literature on the subject is so extensive that an inordinate amount of time would be required to cover it all. This list should not be construed as representing the author's recommendation of the best literature on the subject; however, it should provide a ready guide to useful source material on various phases of methodology in ground-water hydrology.

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the 1990s, the number of people in the UK who are employed in the public sector has increased by 1.5 million, from 2.5 million in 1980 to 4 million in 1995 (Department of Health 1996).

There is a growing emphasis on the need to improve the efficiency of the public sector, and to ensure that the public sector is able to deliver the services that are required by the public. This has led to a number of initiatives, including the introduction of competition, the restructuring of public services, and the introduction of new management practices.

One of the main challenges facing the public sector is the need to improve the efficiency of the services that it provides. This is a complex task, and it requires a number of different approaches. One of the most important is the introduction of competition. This has led to a number of initiatives, including the introduction of competition in the provision of health care, the restructuring of public services, and the introduction of new management practices.

Another important approach is the restructuring of public services. This has led to a number of initiatives, including the introduction of new management practices, the restructuring of public services, and the introduction of new management practices. This has led to a number of initiatives, including the introduction of new management practices, the restructuring of public services, and the introduction of new management practices.

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the 1990s, the number of people in the world who are under 15 years of age has increased from 1.1 billion to 1.5 billion, and the number of people aged 65 and over has increased from 0.2 billion to 0.4 billion (United Nations, 1999).

There are a number of reasons why the world population is growing so rapidly. One of the main reasons is that the number of children born to each woman has increased. This is due to a number of factors, including improved medical care, increased access to contraception, and a shift in cultural values. In many parts of the world, women are now having children at a younger age than in the past, and they are having more children than ever before.

Another reason why the world population is growing so rapidly is that the number of people who are surviving into old age has increased. This is due to a number of factors, including improved medical care, increased access to health care, and a shift in cultural values. In many parts of the world, people are now living longer than in the past, and they are living longer than ever before.

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