

CONTENTS

VOLUME II

Page

SECTION 5. CHANNEL ADJUSTMENTS

Verification of Sediment Transport Functions--	
K. Mahmood, W. G. Dorough and M. I. Haque.....	5-1
Photogrammetric Analysis of Channel Adjustment--	
A. J. Miller.....	5-11
Geomorphic-Hydraulic Simulation of Channel Evolution--	
C. C. Watson, M. D. Harvey and J. Garbrecht.....	5-21
Channel Width Adjustment in Straight Alluvial Streams--	
Carlos V. Alonso and Samuel T. Combs.....	5-31
Predicting Channel Adjustment to Channelization--	
M. D. Harvey, C. C. Watson and J. Bernard.....	5-41
Similarity of Bank Problems on Dissimilar Streams--	
E. H. Grissinger and W. C. Little.....	5-51
Sediment Studies in Grand Canyon, Arizona--	
J. B. Graf, E. L. Pemberton and J. C. Schmidt.....	5-61
Channel Evolution in Modified Tennessee Channels--	
Andrew Simon and Cliff R. Hupp.....	5-71
Vegetation and Bank-Slope Development--	
Cliff R. Hupp and Andrew Simon.....	5-83
Evolution of Two Dredged Channels in Oklahoma--	
Russell R. Schoof, Paul B. Allen and Gene A. Gander.....	5-93
Channel Adjustments of the Lower Colorado River--	
Donald P. McCleary.....	5-103
Alluvial Trend: Notched River Control Structures--	
Karla A. Myers.....	5-113
Channel Adjustments in a Yazoo Bluffline Tributary--	
Joseph B. Murphey and Earl H. Grissinger.....	5-123
Sonar Patterns of Colorado River Bed, Grand Canyon--	
Richard P. Wilson.....	5-133
Channel Adjustments after Passage of a Lahar--	
H. A. Martinson.....	5-143

CONTENTS

	Page
SECTION 6. MODELING	
Effect of Erosion on Productivity--EPIC Water Erosion Model--	
J. R. Williams.....	6-1
Accelerated Erosion Risks vs Watershed Condition--	
William T. Hanes, Rhey M. Solomon, Larry J. Schmidt and	
Russell A. LaFayette.....	6-9
Estimating Sediment Discharge in Canals in Colorado--	
Barbara C. Ruddy.....	6-19
Sediment Transport Capacity of Flow in Rills and Small Channels--	
R. A. Young, C. A. Onstad and D. D. Bosch.....	6-25
Sediment Routing - An Electronic Spreadsheet Template--	
R. S. White.....	6-34
Verification of the PRMS Sediment-Discharge Model--	
Lloyd A. Reed.....	6-44
Application of Streamtube Computer Model--	
A. Molinas, C. W. Denzel and C. T. Yang.....	6-55
Sediment Transport and River Simulation Model--	
Curtis J. Orvis and Timothy J. Randle.....	6-65
A Runoff-Sediment Yield Model for Semiarid Regions--	
J. J. Stone, L. J. Lane, E. D. Shirley and K. G. Renard.....	6-75
Application of HEC-6 to Ephemeral Streams--	
P. F. Ruff, D. W. Dust and M. T. Bowers.....	6-85
Development and Application of a Sedimentation Modeling System--	
D. Michael Gee.....	6-95
Modelling Sediment Yields into Stamford Lake, Texas--	
J. G. Arnold, M. D. Bircket, J. R. Williams,	
H. N. McGill and W. F. Smith.....	6-105
Sediment Transport Simulation in an Armoured Stream--	
Robert T. Milhous, Jeffrey B. Bradley and Cindy L. Collins.....	6-116
Alluvial Computations in Complex River Networks--	
Forrest M. Holly, Kathleen E. Schneider and Warren J. Mellema....	6-127
Offsite Sediment Impacts Using Basin Scale Simulation--	
A. D. Nicks, R. R. Schoof and P. B. Allen.....	6-137
Prioritizing Surface Water Quality Problems--	
C. A. Onstad, R. A. Young, D. D. Bosch and W. P. Anderson.....	6-148
Selected Functions for Sediment-Transport Models--	
David H. Schoellhamer and Philip B. Curwick.....	6-157
Small Watershed Model (SWAM)--	
E. H. Seeley, C. V. Alonso and D. G. DeCoursey.....	6-167
Evaluation of a Road Sediment Model--	
F. J. Watts, E. R. Burroughs, Jr., J. G. King and D. Hansen.....	6-171

CONTENTS

Page

SECTION 7. ENVIRONMENTAL

Movement of Dredged Sand at Thalweg Disposal Sites--	
John D. Ditmars, Donald L. McCown and Robert A. Paddock.....	7-1
Sediment-Nutrient Transport in Agricultural Runoff--	
S. J. Smith, A. N. Sharpley, J. R. Williams,	
A. D. Nicks and O. R. Jones.....	7-11
Effect of Impoundments on Nutrient Concentrations--	
R. G. Menzel, S. J. Smith and N. H. Welch.....	7-21
Polychlorinated Biphenyls in the Housatonic River--	
Kenneth P. Kulp and Frederick B. Gay.....	7-31
Sediment/Fish Modeling in the South Fork Salmon River--	
Philip N. Jahn and David C. Burns.....	7-41
Benthos in a Sediment-Laden Delta Stream System--	
Charles M. Cooper.....	7-51
Plot and Watershed Nutrient Losses in the Palouse--	
D. K. McCool, J. L. Andrews, L. F. Elliott and R. I. Papendick...	7-61
A Budget Analysis of Turbidity and Streamflow Data--	
Kent Smith.....	7-71
Environmental Aspects of Sedimentation--	
Thomas A. Burke.....	7-80

CONTENTS

	Page
SECTION 8. PHYSICAL AND CHEMICAL PROPERTIES OF SEDIMENT	
Physical Properties of Eroded Sediment--	
L. D. Meyer, F. E. Rhoton and L. L. McDowell.....	8-1
Sediment Particle Sizes from Low Slopes--	
C. K. Mutchler and L. L. McDowell.....	8-10
Chemicals Associated with Lower Mississippi River Sediments--	
Charles R. Demas and Philip B. Curwick.....	8-17
OCA and PCP in Contaminated Forest Stream Sediments--	
D. G. Neary, R. A. LaFayette, M. A. Callahan and P. B. Bush.....	8-27
The Role of Sediment in Accelerated Eutrophication--	
A. N. Sharpley.....	8-37
Nutrient-Sediment Relations in Streamflow--	
R. Edward Hickman.....	8-48
Nutrient Transport by Sediment from Pine Forests--	
P. D. Duffy, J. D. Schreiber and S. J. Ursic.....	8-57
Water Quality Impacts from Sediment in the Southeast--	
Alfred M. Duda.....	8-66