

Sedimentation Engineering Manual 54

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Sedimentation Engineering (Manual 54) is an excellent text for understanding the nature and scope of sedimentation problems, methods for their investigation, and practical approaches to their solution. The manual focuses on sediment control methods for watersheds, streams, canals, and reservoirs.

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When ASCE Manual No. 54, "Sedimentation Engineering," was first published in 1975, the subject of the transport and sorting of heterogeneous sediments with wide grain size distributions was still in its infancy. This was particularly true in the case of bed-load transport. The method of Einstein (1950) was one of the few available at the time

CHAPTER 3 TRANSPORT OF GRAVEL AND SEDIMENT MIXTURES

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American Society of Civil Engineers, New York, NY 978-0-87262-001-8 (ISBN-13) | 0-87262-001-8 (ISBN-10), 1975, Soft Cover, Pg. 745 Prepared by Task Committee for the Preparation of the Manual on Sedimentation of the Sedimentation Committee of the Hydraulic Div., ASCE Manual of Practice No.: 54

MOP 110 presents extensive advances in methods of investigation, measurement, and analysis in the specialized field of sedimentation engineering.

Research on reservoir sedimentation in recent years has been aimed mainly at water resources projects in developing countries. These countries, especially in Africa, often have to cope with long droughts, flash floods and severe erosion problems. Large reservoir capacities are required to capture water provided by flash floods so as to ensure the supply of water in periods of drought. The problem arising however is that these floods, due to their tremendous stream power, carry enormous volumes of sediment which, due to the size of reservoirs, are virtually deposited in toto in the reservoir basin, leading to fast deterioration of a costly investment. Accurate forecasting of reservoir behaviour is therefore of the utmost importance. This book fills a gap in current literature by providing in one volume comprehensive coverage of techniques required to practically investigate the effects sediment deposition in reservoirs has on the viability of water resources projects. Current techniques for practically estimating sediment yield from catchments, estimating the volume of sediment expected to deposit in reservoirs, predicting sediment distribution and calculating scour downstream of reservoirs are evaluated and presented. The liberal use of diagrams and graphs to explain the various techniques enhances understanding and makes practical application simple. A major feature of the book is the application of stream power theory to explain the process of reservoir sedimentation and to develop four new methods for predicting sediment distribution in reservoirs. The book is primarily directed at practising engineers involved in the planning and design of water resources projects and at post-graduate students interested in this field of study.

MOP 54 is an excellent text for understanding the nature and scope of sedimentation problems, methods for their investigation, and practical approaches to their solution.

NOTE: NO FURTHER DISCOUNT FOR THIS PRINT PRODUCT--OVERSTOCK SALE --Significantly reduced list price while supplies last The Erosion and Sedimentation Manual provides a comprehensive coverage of subjects in nine chapters (i.e., introduction, erosion and reservoir sedimentation, noncohesive sediment transport, cohesive sediment transport, sediment modeling for rivers and reservoirs, sustainable development and use of reservoirs, river process and restoration, dam decommissioning and sediment management, and reservoir surveys and data analysis). Each chapter is self-contained, with cross references of subjects that are discussed in different chapters of this manual. The manual also includes a list of commonly used notations used in the erosion and sedimentation literature, conversion factors between the Imperial and metric units, physical properties of water, and author and subject indexes for easy reference. Each chapter has a list of reference for readers who would like to seek out more detailed information on specific subjects. Audience The manual would be useful for researchers, university professors, graduate students, geologists, hydrographic survey analysts, municipal and state water research specialists, and engineers in solving erosion and sedimentation problems. Related products: Earth Science resources collection can be found here: <https://bookstore.gpo.gov/catalog/science-technology/earth-science>

The second edition of this acclaimed, accessible textbook brings the subject of sedimentation and erosion up-to-date, providing an excellent primer on both fundamental concepts of sediment-transport theory and methods for practical applications. The structure of the first edition is essentially unchanged, but all the chapters have been updated, with several chapters reworked and expanded significantly. Examples of the new additions include the concept of added mass, the Modified Einstein Procedure, sediment transport by size fractions, sediment transport of sediment mixtures, and new solutions to the Einstein Integrals. Many new examples and exercises have been added. Erosion and Sedimentation is an essential textbook on the topic for students in civil and environmental engineering and the geosciences, and also as a handbook for researchers and professionals in engineering, the geosciences and the water sciences.

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