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River Mechanics Julien Pierre Y.

Pierre Y. Julien Professor Professional Engineer Department of Civil Engineering Colorado State University Fort Collins CO 80523-1372 Phone (970) 491-8450 Fax (970) 491-7008 pierre@engr.colostate.edu. B.Sc.A., M.Sc. and Ph.D., Laval University Areas of expertise: river mechanics, erosion & sedimentation, hydraulics, geosciences, surface hydrology. Resume; Class Projects; Projects ...

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River Mechanics Pierre Y Julien

Pierre Y. Julien is Professor of Civil and Environmental Engineering at Colorado State University. He has 35 years of professional engineering experience in the fields of hydraulics and river sedimentation.

Completely updated and with three new chapters, this analysis of river dynamics is invaluable for advanced students, researchers and practitioners.

The second edition of Julien's textbook presents an analysis of rivers from mountain streams to river estuaries. The book is rooted in fundamental principles to promote sound engineering practice. State-of-the-art methods are presented to underline theory and engineering applications. River mechanics blends the dual concepts of water conveyance and sediment transport. Like the first edition, this textbook contains ample details on river equilibrium, river dynamics, bank stabilization, and river engineering. Complementary chapters also cover the physical and mathematical modeling of rivers. As well as being completely updated throughout, three new chapters have been added on watershed dynamics, hillslope stability, and stream restoration. Throughout the text, hundreds of examples, exercises, problems, and case studies assist the reader in learning the essential concepts of river engineering. The textbook is very well illustrated to enhance advanced student learning, while researchers and practitioners will find the book to be an invaluable reference.

Fundamental principles of river mechanics, with engineering analysis and design, including problems, examples, and cases.

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.

Comprehensive text on the fundamentals of modeling flow and sediment transport in rivers treating both physical principles and numerical methods for various degrees of complexity. Includes 1-D, 2-D (both depth- and width-averaged) and 3-D models, as well as the integration and coupling of these models. Contains a broad selection

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Practitioners in water engineering rely on a thorough understanding of shallow water flows in order to safeguard our habitat, while at the same time sustaining the water environment. This book proposes a unified theoretical framework for the different types of shallow flow, providing a coherent approach to interpret the behaviour of such flows, and highlighting the similarities and differences. Every major topic in the book is accompanied by worked examples illustrating the theoretical concepts. Practical examples, showcasing inspiring research and engineering applications from the past and present, provide insight into how the theory developed. The book is also supplemented by a range of online resources, available at www.cambridge.org/battjes, including problem sets and computer codes. A solutions manual is available for instructors. This book is intended for students and professionals working in environmental water systems, in areas such as coasts, rivers, harbours, drainage, and irrigation canals.

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