

River Mechanics Pierre Y Julien

Erosion and Sedimentation River Mechanics Essentials of Hydraulics Research Proposals Submitted and Research Awards Received Annual Report A
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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

this textbook offers a thorough analysis of rivers from upland areas to oceans it scrutinizes select methods underlining both theory and engineering applications emphasizing the mechanics of flood wave propagation and sediment transport in rivers the text covers fundamental principles engineering analysis and engineering design with problems examples and case studies throughout channel stability and river dynamics are examined in terms of river morphology lateral migration aggradation and degradation detailed treatments of riverbank stabilization and engineering methods are provided while separate chapters cover physical and mathematical models this essential text presents both the theory and design of measures to reduce flood impact and bank erosion to improve navigation and to increase water supply to cities and irrigation canals over 100 exercises and nearly

twenty case studies make this book an invaluable learning tool for students and researchers and practitioners will find it a concise resource on the mechanics of rivers

concise yet thorough look at hydraulics and hydraulic engineering includes many worked examples case studies and end of chapter exercises

designed to bridge the gap between books on the theoretical principles of hydrogeology that define but don't describe actual practices and professional applications oriented publications this field oriented book manual provides background information on the whys of field work as well as step by step procedures for the whats and hows of specific field tests it provides readers who already have a basic familiarity with introductory hydrogeology with hands on practice in actual hydrogeologic field methods and activities

introducing hydrology's new benchmark reference here's the first book in nearly 30 years to provide comprehensive coverage of the current state of hydrologic knowledge and practice saving you hours of time tracking down the latest techniques in professional journals Maidment's handbook of hydrology includes the contributions of more than 50 international authorities who provide you with practical methods of solving problems in every aspect of the field including the increasing application of geostatistics and computer models you'll discover more effective ways to mitigate the impact of floods through better urban drainage assess the water supplies of cities and farming areas prevent the pollution of natural waters halt the damaging effects of erosion protect wildlife and preserve wetlands contain and remove contaminants in waterways and much more

vols 29-30 contain papers of the international engineering congress chicago 1893 v 54 pts a-f papers of the international engineering congress st louis 1904

debris flows are among the most frequent and destructive of all geomorphic processes mainly affecting mountainous areas in a range of

morphoclimatic environments and the damage they cause is often devastating increased anthropisation calls for improvements in the criteria used to identify debris flow risk areas and the prevention measures adopted one of the main difficulties encountered by the approaches illustrated in previous literature is linked to their possible validation either in the field or in a laboratory environment the choice of a rheological model is extremely important this book provides methodological details which can be applied to investigations on debris flow mechanics capable of providing an accurate representation of the phenomenology

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