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| 2. Record Nr. | UNINA9910523748703321 |
| Titolo | River Hydraulics : Hydraulics, Water Resources and Coastal Engineering Vol. 2 // edited by Ramakar Jha, V. P. Singh, Vivekanand Singh, L. B. Roy, Roshni Thendiyath |
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| ISBN | 3-030-81768-7 |
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| Descrizione fisica | 1 online resource (459 pages) |
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| Disciplina | 627.12 |
| Soggetti | Water Hydrology Earth sciences Natural disasters Ecology Physical geography Earth Sciences Natural Hazards Environmental Sciences Earth System Sciences |
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Nota di bibliografia

Includes bibliographical references.

Nota di contenuto

Effect of bed permeability on flow turbulence in gravel-bed stream -- Study on Erosion and Undercut of Cohesive River Bank – An Experimental Approach -- Hydraulic design of reservoir in permeable pavement for mitigating urban storm water -- Analytical expression for measurement of discharge using conical obstruction in a small rectangular channel -- Efficient numerical algorithm for flow field around vertically submerged tandem and aligned circular cylinders. .

Sommario/riassunto

This book presents key principles of the hydraulics of river basins, with a unique focus on the interplay between stream flows and sediment transport. Addressing a number of basic topics related to the hydraulics of river systems, above all it emphasizes applicative aspects in order to provide the reader with a solid grasp of river engineering. The understanding of the river hydraulics is essential for the assessment of optimum locations for the conservation of water resources and its structures. This book will be interesting to readers and researchers working in the specialized area of river hydraulics of Ganga basin, Narmada, Tapi, Godavari, and other basins of India. It consists of review on hydraulics of meandering river; hydraulic design of reservoir in permeable pavement; optimization of hydraulic design; hydraulic investigations to optimize the design of spillway and design of energy dissipater; and analysis of performance of orifice spillway using computational fluid dynamics.