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Water Resources Engineering MDPI

Small Hydroelectric Engineering Practice is a comprehensive reference book covering all aspects of identifying, building, and operating hydroelectric schemes between 500 kW and 50 MW. In this range of outputs there are many options for all aspects of the scheme and it is very important that the best options are chosen. As small hydroelectric schemes

[The Guide to Hydropower Mechanical Design](#) H. John Heinz III Center for Science Economics and Environme

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Engineering and Design Forgotten Books

"Green Stormwater Infrastructure for Sustainable Urban and Rural Development" offers some of the latest international scientific and practitioner findings around the adaptation of urban, rural and transportation infrastructures to climate change by sustainable water management. This book addresses the main gaps in the up-to-date literature and provides the reader with a holistic view, ranging from a strategic and multiscale planning, implementation and decision-making angle down to the engineering details for the design, construction, operation and maintenance of green stormwater techniques such as sustainable drainage systems (SuDS) and stormwater control measures (SCMs). This book is particularly recommended for a wide audience of readers, such as academics/researchers and students in the fields of architecture and landscaping, engineering, environmental and natural sciences, social and physical geography and urban and territorial planning. This book is also a resource for practitioners and professionals developing their work in architecture studios, engineering companies, local and regional authorities, water and environmental industries, infrastructure maintenance, regulators, planners, developers and legislators.

[Hydroelectrical Engineering Kids Can Press Ltd](#)

Written by leading experts, ICE Handbook of Urban Drainage Practice provides an overview of key challenges, opportunities and future directions of urban drainage in a practical, accessible way. An invaluable tool for local authority engineers, environmental engineers, drainage design/operation engineers, and consultants or contractors.

[Hydroelectrical Engineering McGraw Hill Brasil](#)

Report focuses on the removal of small dams, defined as storing 1-100 acre-feet of water.

[The Sun, the Earth, and Near-earth Space Springer](#)

This manual provides guidance on estimating the energy potential of a hydropower site, selecting a project's installed capacity, determining the need for for the project's output, evaluating hydropower benefits, and estimating powerhouse costs.

[Anthropogenic Aquifer Recharge Office of Technology Assessment](#)

Excerpt from *Hydroelectrical Engineering: A Book for Hydraulic and Electrical Engineers, Students and Others Interested in the Development of Hydroelectric Power Systems* In a work of this kind, the author has necessarily drawn freely from all sources of information, and he believes that due acknowledgment to them has been made. However, in some instances, search of the original has proved fruitless, and apologies are made to all engineers who may find their work used without any definite reference, such omission being unintentional. Some of the paragraphs which appear in the chapters on Pressure Pipes and Dams are reprinted with but little alteration from articles contributed by the author to the *Engineering Record*, *Engineering News*, and *La Technique Moderne*.

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[Water-Wise Cities and Sustainable Water Systems MIT Press](#)

"... Concise explanations and descriptions - easily read and readily understood - of what we know of the chain of events and processes that connect the Sun to the Earth, with special emphasis on space weather and Sun-Climate."--Dear Reader.

Engineered! Government Printing Office

At head of title: National Cooperative Highway Research Program.

[Optimizing Stormwater Treatment Practices Scholar's Choice](#)

As cities develop, more land is converted into impervious surfaces, which do not allow water to infiltrate. Careful urban planning is needed to ensure that the hydrologic cycle and water quality of the catchment areas are not affected. There are techniques that can attenuate peak flow during rain events and reduce the amount of metals, nutrients, and bacteria that enter the urban water cycle. This brief gives a short introduction on bioretention systems and documents the effectiveness of some 36 plant species in removing water pollutants. A summary on the maintenance requirements is also presented.

[The Gas Turbine Engineering Handbook McGraw-Hill Companies](#)

A groundbreaking treatise by one of the great mathematicians of our time, who argues that highly effective thinking can be learned. What spurs on and inspires a great idea? Can we train ourselves to think in a way that will enable world-changing understandings and insights to emerge? Richard Hamming said we can, and first inspired a generation of engineers, scientists, and researchers in 1986 with "You and Your Research," an electrifying sermon on why some scientists do great work, why most don't, why he did, and why you should, too. *The Art of Doing Science and Engineering* is the full expression of what "You and Your Research" outlined. It's a book about thinking; more specifically, a style of thinking by which great ideas are conceived. The book is filled with stories of great people performing mighty deeds--but they are not meant to simply be admired. Instead, they

are to be aspired to, learned from, and surpassed. Hamming consistently returns to Shannon's information theory, Einstein's relativity, Grace Hopper's work on high-level programming, Kaiser's work on digital fillers, and his own error-correcting codes. He also recounts a number of his spectacular failures as clear examples of what to avoid. Originally published in 1996 and adapted from a course that Hamming taught at the U.S. Naval Postgraduate School, this edition includes an all-new foreword by designer, engineer, and founder of Dynamicland Bret Victor, and more than 70 redrawn graphs and charts. *The Art of Doing Science and Engineering* is a reminder that a childlike capacity for learning and creativity are accessible to everyone. Hamming was as much a teacher as a scientist, and having spent a lifetime forming and confirming a theory of great people, he prepares the next generation for even greater greatness.

Energy Resources and Systems Springer Science & Business Media

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[ICE Handbook of Urban Drainage Practice CRC Press](#)

Optimizing Stormwater Treatment Practices: A Handbook of Assessment and Maintenance provides the information necessary for developing and operating an effective maintenance program for stormwater treatment. The book offers instructions on how to measure the level of performance of stormwater treatment practices directly and bases proposed maintenance schedules on actual performance and historical maintenance efforts and costs. The inspection methods, which are proven in the field and have been implemented successfully, are necessary as regulatory agencies are demanding evaluations of the performance of stormwater treatment practices. The authors have developed a three-tiered approach that offers readers a standard protocol for how to determine the effectiveness of stormwater treatment practices currently in place.

Small Hydroelectric Engineering Practice Emerald Group Publishing

This book gathers a collection of extended papers based on presentations given during the SimHydro 2017 conference, held in Sophia Antipolis, Nice, France on June 14-16, 2017. It focuses on how to choose the right model in applied hydraulics and considers various aspects, including the modeling and simulation of fast hydraulic transients, 3D modeling, uncertainties and multiphase flows. The book explores both limitations and performance of current models and presents the latest developments in new numerical schemes, high-performance computing, multiphysics and multiscale methods, and better interaction with field or scale model data. It gathers the latest theoretical and innovative developments in the modeling field and presents some of the most advance applications on various water related topics like uncertainties, flood simulation and complex hydraulic applications. Given its breadth of coverage, it addresses the needs and interests of practitioners, stakeholders, researchers and engineers alike.

[Mecânica dos Fluidos Routledge](#)

The book is an overview of the diversity of anthropogenic aquifer recharge (AAR) techniques that use aquifers to store and treat water. It focusses on the processes and the hydrogeological and geochemical factors that affect their performance. This book is written from an applied perspective with a focus of taking advantage of global historical experiences, both positive and negative, as a guide to future implementation. Most AAR techniques are now mature technologies in that they have been employed for some time, their scientific background is well understood, and their initial operational challenges and associated solutions have been identified. However, opportunities exist for improved implementation and some recently employed and potential future innovations are presented. AAR which includes managed aquifer recharge (MAR) is a very important area of water resources management and there is no recent books that specifically and comprehensively addresses the subject.

Experiencing Architecture, second edition Stripe Press

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[Hydroelectric Handbook Springer](#)

Suitable for individuals who design hydro power facilities, maintain and procure equipment, or produce and distribute electricity, this book presents an overview of some of the best practices. *National Management Measures to Control Nonpoint Source Pollution from Urban Areas* MIT Press Full text engineering e-book.

Dam Removal Springer

Hydropower engineering deals with the study of hydropower. It concerns itself with the design, construction and management of machines and structures which can be used to produce hydroelectric power. This study is generally used in textile mills, ore mills, dock cranes and also for irrigation. This book provides students with deep knowledge about the subject. It includes various topics that deal with the core concepts of hydropower engineering. The various sub-fields along with technological progress that have future implications are glanced at in it. This book explores all the important aspects of hydropower engineering in the present day scenario. Coherent flow of topics, student-friendly language and extensive use of examples make this textbook an invaluable source of knowledge.

[Hydroelectrical Engineering: A Book for Hydraulic and Electrical Engineers, Students and Others Interested in the Development of Hydroelectric Powe Springer Science & Business Media](#)

Covers the aspects of water resources engineering, from hydrology, hydraulics, and hydraulic

structures to engineering economy studies and planning. This book discusses the multi-purpose

projects in the chapter on planning. It also includes 400 problems for student homework assignments.