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Hydraulique industrielle

Cet ouvrage est destiné à ceux qui veulent se familiariser avec les systèmes hydrauliques industriels. Il développe les principes des installations hydrauliques, fait une étude des principaux composants. De nombreuses activités permettent au lecteur de mettre en application les connaissances requises. L'utilisateur y trouvera également des conseils relatifs à la maintenance ainsi que des tableaux et graphiques utiles aux différents calculs entrants dans la réalisations des unités hydrauliques.

Hydraulique industrielle

This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft Hydraulics at the time), this new edition, written again with contributions from Jerry R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design, siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.

Dictionnaire d'automatiq...

Urban Drainage: A Multilingual Glossary has been written by research engineers and scientists with substantial experience in the urban drainage field. It provides definitive descriptions of urban drainage terms in English, French, Japanese and German, giving guidance on their appropriate usage and context. The glossary also contains many diagrams, tables and technical discussions, and is a very practical tool to facilitate international technical communication in the urban drainage field. Containing well over 850 commonly-used terms in urban drainage, all expressed in a user-friendly manner, the book serves as a valuable resource for both practitioner and academic. Topics covered include: urban hydrology/hydraulics sewerage surface water runoff pollution (groundwater and surface) receiving waters ecology ecotoxicology best management practices urban water resource management Urban Drainage: A Multilingual Glossary represents an initiative of the joint IWA/IAHR Committee on Urban Drainage and has arisen out of the long-standing terminological and tautological difficulties of many terms in common usage within international urban drainage practice. It will be of great use and interest to scientists, engineers and ecologists, professionals and students working in urban hydrology/hydraulics, urban water resource management and regulation, urban planning and ecology.

Water Resource Systems Planning and Management

Helps you ensure that your simulations are appropriate representations of real-world systems. The book concentrates on the differentiation between the assessment of a simulation tool and the verification and validation of general software products. It is a systematic, procedural, practical guide that you can use to enhance the credibility of your simulation models. In addition, it is a valuable reference book and a road map for software developers and quality assurance experts, or as a text for simulation methodology and software engineering courses. This book details useful assessment procedures and phases, discusses ways to tailor the methodology for specific situations and objectives, and provides numerous assessment aids. The reader can use these aids to support ongoing assessments over the entire life cycle of the model.

Urban Drainage

This volume offers a comprehensive analysis of the water resources in the Souss-Massa river basin in southwestern Morocco and provides novel water-management approaches to narrow the gap between supply and demand for water. It evaluates conventional water resources surface water and groundwater and discusses in detail rainfall harvesting into dams along the Souss and Massa wadis. Further, it explores topics including the geology of the aquifer; the risk of over exploitation; alternative water resources, such as desalinated seawater and treated domestic wastewater, as well as management approaches like Data Development Analysis and the SALTMED model. With a focus on linking scientific research to practical applications and the demands of agriculture and associated agro-industry, urbanization and tourism, which compete for the limited water resources, the book appeals to environmental scientists, geologists, engineers and environmental managers.

La micro-irrigation dans le monde

This important and insightful book provides, for the first time, a broad presentation of ongoing research into public participation in landscape conservation, management and planning, following the 2000 European Landscape Convention which came into force in 2004. The book examines both the theory of participation and what lessons can be learnt from specific European examples. It explores in what manner and to what extent the provisions for participation in the European Landscape Convention have been followed up and implemented. It also presents and compares different experiences of participation in selected countries from northern, southern, eastern and western Europe, and provides a critical examination of public participation in practice. However, while the book's focus is necessarily on Europe, many of the conclusions drawn are of global relevance. The book provides a valuable reference for researchers and advanced students in landscape policies and management, as well as for professionals and others interested in land-use planning and environmental management.

Le golfe du Lion

Low-lying countries, such as the Netherlands, are strongly dependent on good and safe sea defences. In the past, the design of dikes and revetments was mostly based on vague experience, rather than on general valid calculation methods. The demand for reliable design methods for protective structures has, in the Netherlands, resulted in increased research in this field. These contributions have been prepared by Dutch experts participating in the study groups of the Technical Advisory Committee on

Water Defences. The book opens with an outline of general strategy and methodology on sea defences, illustrated in the following chapters by technical information on specific items and Dutch experience, and it ends with more general aspects such as probabilistic approach, integral (multifunctional) design, management & safety assessment. Together, these chapters provide an almost complete technical overview of the items needed for the design and maintenance of dikes and revetments. The enclosed CRESS-program allows for an initial estimation of hydraulic loads and preliminary design.

Simulation Validation

L'eau est une ressource qui n'est pas infinie et qui est non substituable. En tant que fondement de la vie, des sociétés et des économies, l'eau comporte de multiples valeurs et avantages. Mais contrairement à la plupart des autres ressources naturelles, il s'est avéré extrêmement difficile de déterminer sa véritable «valeur». L'édition 2021 du rapport mondial sur la mise en valeur de l'eau des Nations Unies, intitulée «Valuing Water» évalue l'état actuel et les défis de la valorisation de l'eau dans différents secteurs et perspectives et identifie les moyens de promouvoir sa valorisation en tant qu'outil pour aider à améliorer sa gestion et parvenir à un développement durable à l'échelle mondiale.

The Souss Massa River Basin, Morocco

This book presents an overview of techniques that are available to characterize sedimentary aquifers. Groundwater flow and solute transport are strongly affected by aquifer heterogeneity. Improved aquifer characterization can allow for a better conceptual understanding of aquifer systems, which can lead to more accurate groundwater models and successful water management solutions, such as contaminant remediation and managed aquifer recharge systems. This book has an applied perspective in that it considers the practicality of techniques for actual groundwater management and development projects in terms of costs, technical resources and expertise required, and investigation time. A discussion of the geological causes, types, and scales of aquifer heterogeneity is first provided. Aquifer characterization methods are then discussed, followed by chapters on data upscaling, groundwater modelling, and geostatistics. This book is a must for every practitioner, graduate student, or researcher dealing with aquifer characterization .

The European Landscape Convention

Repackaged with a new afterword, this "valuable and entertaining" (New York Times Book Review) book explores how scientists are adapting nature's best ideas to solve tough 21st century problems. Biomimicry is rapidly transforming life on earth. Biomimics study nature's most successful ideas over the past 3.5 million years, and adapt them for human use. The results are revolutionizing how materials are invented and how we compute, heal ourselves, repair the environment, and feed the world. Janine Benyus takes readers into the lab and in the field with maverick thinkers as they: discover miracle drugs by watching what chimps eat when they're sick; learn how to create by watching spiders weave fibers; harness energy by examining how a leaf converts sunlight into fuel in trillionths of a second; and many more examples. Composed of stories of vision and invention, personalities and pipe dreams, Biomimicry is must reading for anyone interested in the shape of our future.

Information Systems

Arid and semi-arid regions face major challenges in the management of scarce freshwater resources under pressures of population, economic development, climate change, pollution and over-abstraction. Groundwater is commonly the most important water resource in these areas. Groundwater models are widely used globally to understand groundwater systems and to guide decisions on management. However, the hydrology of arid and semi-arid areas is very different from that of humid regions, and there is little guidance on the special challenges of groundwater modelling for these areas. This book brings together the experience of internationally leading experts to fill a gap in the scientific and technical literature. It introduces state-of-the-art methods for modelling groundwater resources, illustrated with a wide-ranging set of illustrative examples from around the world. The book is valuable for researchers, practitioners in developed and developing countries, and graduate students in hydrology, hydrogeology, water resources management, environmental engineering and geography.

Dikes and Revetments

With climate change now a certainty, the question is how much change there will be and what can be done about it. One of the answers is through adaptation. Many of the lessons that are being learned in adaptation are from success stories from the field. This publication contains eleven case studies covering different ecosystems and regions around the world. Its aim is to summarize some current applications of the Ecosystem-Based Adaptation concept and its tools used around the world, and also draw lessons from experiences in conservation adaptation.

Disaster risk reduction in school curricula: case studies from thirty countries

Earthen architecture constitutes one of the most diverse forms of cultural heritage and one of the most challenging to preserve. It dates from all periods and is found on all continents but is particularly prevalent in Africa, where it has been a building tradition for centuries. Sites range from ancestral cities in Mali to the palaces of Abomey in Benin, from monuments and mosques in Iran and Buddhist temples on the Silk Road to Spanish missions in California. This volume's sixty-four papers address such themes as earthen architecture in Mali, the conservation of living sites, local knowledge systems and intangible aspects, seismic and other natural forces, the conservation and management of archaeological sites, research advances, and training.

CIM Bulletin

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 advanced 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.

Rapport mondial des Nations Unies sur la mise en valeur des ressources en eau 2021

Includes annual cumulative index of inventors and patentees.

Aquifer Characterization Techniques

The Cambridge Handbook of Engineering Education Research is the critical reference source for the growing field of engineering education research, featuring the work of world luminaries writing to define and inform this emerging field. The Handbook draws extensively on contemporary research in the learning sciences, examining how technology affects learners and learning environments, and the role of social context in learning. Since a landmark issue of the Journal of Engineering Education (2005), in which senior scholars argued for a stronger theoretical and empirically driven agenda, engineering education has quickly emerged as a research-driven field increasing in both theoretical and empirical work drawing on many social science disciplines, disciplinary engineering knowledge, and computing. The Handbook is based on the research agenda from a series of interdisciplinary colloquia funded by the US National Science Foundation and published in the Journal of Engineering Education in October 2006.

Biomimicry

This report reviews engineering's importance to human, economic, social and cultural development and in addressing the UN Millennium Development Goals. Engineering tends to be viewed as a national issue, but engineering knowledge, companies, conferences and journals, all demonstrate that it is as international as science. The report reviews the role of engineering in development, and covers issues including poverty reduction, sustainable development, climate change mitigation and adaptation. It presents the various fields of engineering around the world and is intended to identify issues and challenges facing engineering, promote better understanding of engineering and its role, and highlight ways of making engineering more attractive to young people, especially women.--Publisher's description.

Comprehensive Dictionary of Petroleum Science and Technology

High speed rail (HSR) is being touted as a strategic investment for connecting people across regions, while also fostering prosperity and smart urban growth. However, as its popularity increases, its implementation has become contentious with various parties contesting the validity of socioeconomic and environmental objectives put forward as justification for investment. High Speed Rail and Sustainability explores the environmental, economic and social effects of developing a HSR system, presenting new evaluations of the proposed system in California in the US as well as lessons from international experience. Drawing upon the accumulated experience from past HSR system development around the world, leading experts present a diverse set of perspectives as well as diverse contexts of implementation. Assessments of the California case as well as cases from Japan, France, Germany, Italy, Spain, Taiwan, China, and the UK show how governments and stakeholders have bridged the gap between the vision and the realities of connecting metropolitan regions through HSR. This is a valuable resource for academics, researchers and policy-makers in the areas of urban planning, civil engineering, transportation and environmental design.

Bureaux d'etudes automatismes

This is a book about how ecologists can integrate remote sensing and GIS in their research. It will allow readers to get started with the application of remote sensing and to understand its potential and limitations. Using practical examples, the book covers all necessary steps from planning field campaigns to deriving ecologically relevant information through remote sensing and modelling of species distributions. An Introduction to Spatial Data Analysis introduces spatial data handling using the open source software Quantum GIS (QGIS). In addition, readers will be guided through their first steps in the R programming language. The authors explain the fundamentals of spatial data handling and analysis, empowering the reader to turn data acquired in the field into actual spatial data. Readers will learn to process and analyse spatial data of different types and interpret the data and results. After finishing this book, readers will be able to address questions such as “What is the distance to the border of the protected area?”, “Which points are located close to a road?”, “Which fraction of land cover types exist in my study area?” using different software and techniques. This book is for novice spatial data users and does not assume any prior knowledge of spatial data itself or practical experience working with such data sets. Readers will likely include student and professional ecologists, geographers and any environmental scientists or practitioners who need to collect, visualize and analyse spatial data. The software used is the widely applied open source scientific programs QGIS and R. All scripts and data sets used in the book will be provided online at book.ecosens.org. This book covers specific methods including: what to consider before collecting in situ data how to work with spatial data collected in situ the difference between raster and vector data how to acquire further vector and raster data how to create relevant environmental information how to combine and analyse in situ and remote sensing data how to create useful maps for field work and presentations how to use QGIS and R for spatial analysis how to develop analysis scripts

Groundwater Modelling in Arid and Semi-Arid Areas

The report highlights the crucial role of engineering in achieving each of the 17 SDGs. It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs. It provides a snapshot of the engineering innovations that are shaping our world, especially emerging technologies such as big data and AI, which are crucial for addressing the pressing challenges facing humankind and the planet. It analyses the transformation of engineering education and capacity-building at the dawn of the Fourth Industrial Revolution that will enable engineers to tackle the challenges ahead. It highlights the global effort needed to address the specific regional disparities, while summarizing the trends of engineering across the different regions of the world.

Building Resilience to Climate Change

The emerging, powerful fuzzy control paradigm has led to the worldwide success of countless commercial products and real-world applications. Fuzzy control is exceptionally practical and cost-effective due to its unique ability to accomplish tasks without knowing the mathematical model of the system, even if it is nonlinear, time varying and complex. Nevertheless, compared with the conventional control technology, most fuzzy control applications are developed in an ad hoc manner with little analytical understanding and without rigorous system analysis and design. Fuzzy Control and Modeling is the only book that establishes the analytical foundations for fuzzy control and modeling in relation to

the conventional linear and nonlinear theories of control and systems. The coverage is up-to-date, comprehensive, in-depth and rigorous. Numeric examples and applications illustrate the utility of the theoretical development. Important topics discussed include: Structures of fuzzy controllers/models with respect to conventional fuzzy controllers/models Analysis of fuzzy control and modeling in relation to their classical counterparts Stability analysis of fuzzy systems and design of fuzzy control systems Sufficient and necessary conditions on fuzzy systems as universal approximators Real-time fuzzy control systems for treatment of life-critical problems in biomedicine Fuzzy Control and Modeling is a self-contained, invaluable resource for professionals and students in diverse technical fields who aspire to analytically study fuzzy control and modeling.

Terra 2008

Heterogeneous Catalytic Materials discusses experimental methods and the latest developments in three areas of research: heterogeneous catalysis; surface chemistry; and the chemistry of catalysts. Catalytic materials are those solids that allow the chemical reaction to occur efficiently and cost-effectively. This book provides you with all necessary information to synthesize, characterize, and relate the properties of a catalyst to its behavior, enabling you to select the appropriate catalyst for the process and reactor system. Oxides (used both as catalysts and as supports for catalysts), mixed and complex oxides and salts, halides, sulfides, carbides, and unsupported and supported metals are all considered. The book encompasses applications in industrial chemistry, refinery, petrochemistry, biomass conversion, energy production, and environmental protection technologies. Provides a systematic and clear approach of the synthesis, solid state chemistry and surface chemistry of all solid state catalysts Covers widely used instrumental techniques for catalyst characterization, such as x-ray photoelectron spectroscopy, scanning electron microscopy, and more Includes characterization methods and lists all catalytic behavior of the solid state catalysts Discusses new developments in nanocatalysts and their advantages over conventional catalysts

CIM Bulletin

Interest in statistical methodology is increasing so rapidly in the astronomical community that accessible introductory material in this area is long overdue. This book fills the gap by providing a presentation of the most useful techniques in multivariate statistics. A wide-ranging annotated set of general and astronomical bibliographic references follows each chapter, providing valuable entry-points for research workers in all astronomical sub-disciplines. Although the applications considered focus on astronomy, the algorithms used can be applied to similar problems in other branches of science. Fortran programs are provided for many of the methods described.

Schema directeur de mise en valeur et de gestion des ressources en eau du Niger

Advances in Hydroinformatics