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MCDANIEL COLON

Select Proceedings of VCDRR 2021 CRC Press This book comprises select peer-reviewed proceedings of the International Conference

on Recent Developments in Sustainable Infrastructure (ICRDSI) 2019. The topics span over all major disciplines of civil engineering with regard to sustainable development of infrastructure and innovation in construction materials, especially concrete. The book covers numerical and analytical studies on various topics such as composite and sandwiched structures, green building, groundwater modeling, rainwater harvesting, soil dynamics, seismic resistance and control of structures, waste management, structural health monitoring, and geo-environmental engineering. This book will be useful for students, researchers and professionals working in sustainable technologies in civil engineering.

IRRIGATION WATER MANAGEMENT Springer Nature

This book presents selected articles from the 5th International Conference on Geotechnics, Civil Engineering Works and Structures, held in Ha Noi, focusing on the theme “Innovation for Sustainable Infrastructure”, aiming to not only raise awareness of the vital importance of sustainability in infrastructure development but to also highlight the essential roles of innovation and technology in planning and building sustainable infrastructure. It provides an international platform for researchers, practitioners, policymakers and entrepreneurs to present

their recent advances and to exchange knowledge and experience on various topics related to the theme of “Innovation for Sustainable Infrastructure”.

A Selected Bibliography

Springer Nature

Water Rights in CaliforniaLecture NotesIRRIGATION WATER MANAGEMENTPHI Learning Pvt. Ltd.

Philippine Development PHI Learning Pvt. Ltd.

This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The book presents results of experimental investigations into the latest topics related to energy and built environment. The topics covered include green and clean technologies, zero energy buildings, solar energy, energy conservation and heat recovery, and solar architecture. The contents of this book will be beneficial to students, researchers and professionals working in the area of energy and built environment engineering.

Advances in Water Resources Engineering and Management New Age International

This book comprises the select proceedings of the International Conference on Recent Advances in Civil Engineering (ICRACE) 2020, held at the Cochin University of Science and Technology, Cochin, Kerala, India. The book focuses on latest research in different areas of civil engineering and lays special emphasis on

sustainable construction practices. It is divided into seven major themes: (i) Modern materials and sustainable construction, (ii) Environmental engineering and management, (iii) Geotechnical engineering, (iv) Health, safety and environment, (v) Irrigation, water resources and management, (vi) Structural Engineering, and (vii) Transportation engineering and traffic planning. Given the range of the topics covered, this book can be useful for students, scholars and professionals interested in the different sub-disciplines of civil engineering.

Select Proceedings of ARICE 2019 Springer

This volume comprises select peer reviewed papers presented at the international conference - Advanced Research and Innovations in Civil Engineering (ARICE 2019). It brings together a wide variety of innovative topics and current developments in various branches of civil engineering. Some of the major topics covered include structural engineering, water resources engineering, transportation engineering, geotechnical engineering, environmental engineering, and remote sensing. The book also looks at emerging topics such as green building technologies, zero-energy buildings, smart materials, and intelligent transportation systems. Given its contents, the book will prove useful to students, researchers, and professionals working in the field of civil

engineering.
Announcements and Faculty List ... Springer Nature
This book presents select proceedings of the national conference on Advanced Modelling and Innovations in Water Resources Engineering (AMIWRE 2021) and examines numerous advancements in the field of water resources engineering and management towards sustainable development of environment. The topics covered includes river basin planning and development, reservoir planning and management, integrated water management, reservoir sedimentation, soil erosion and sedimentation, agricultural technologies for climate change mitigation, uncertainty analysis in hydrology, water distribution networks, floods and droughts management, water quality modelling, environmental modelling, environmental impact assessment, urban water management, open channel hydraulics, hydraulic structures, groundwater hydraulics, groundwater flow and contaminant transport modelling, computational fluid dynamics, ocean engineering, HEC-RAC, SWAT, MIKE, MODFLOW models applications, numerical analysis in water resources engineering, climate change impacts on hydrology, optimization techniques in water resources, soft computing techniques and applications in water resources and remote sensing / geospatial

techniques in water resources. This book will be beneficial for water sectors development mainly agricultural production, reservoir operations, improvement of water quality, flood and drought controls, designing hydraulic structures and geospatial analysis. This book will be a valuable reference for faculties, research scholars, students, design engineers, industrialists, R & D personnel and practitioners working in water resources engineering and its related fields.

Select Proceedings of SEES 2019 Springer Nature

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.

Springer Nature

This book presents selected papers from the International Symposium on Geotechnics for Transportation Infrastructure (ISGTI 2018). The research papers cover geotechnical interventions for the diverse fields of policy formulation, design, implementation, operation and management of the different modes of travel, namely road, air, rail and waterways. This book will be of interest to academic and industry researchers working in transportation geotechnics, as also to practicing engineers, policy makers, and civil agencies.

Principles and Practice Springer Nature

This book comprises select proceedings of the

International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2020). The volume focuses on latest research works carried out in the area of water resources and transportation engineering. The topics include technological intervention and solution for water security, sustainability in water resources and transportation infrastructure, crop protection, resilience to disaster like flood, hurricane and drought, traffic congestion, transport planning etc. It aims to address broad spectrum of audience by covering inter-disciplinary innovative research and applications in these areas. It will be useful to graduate students, researchers, scientists, and practitioners working in water resources and transportation engineering domain.

Containing a Record Under Author, Title, Subject and Series of All Books Recorded in the Publishers' Weekly, 1900-1909, with a Directory of Publishers, Authors and Printers Issuing Books During the Year; and a Directory of Booksellers in the Principal Towns of the United States and Canada Springer Nature This book gathers the latest advances, innovations, and applications in the field of innovative biosystems engineering for sustainable agriculture, forestry and food production. Focusing on the challenges of implementing

sustainability in various contexts in the fields of biosystems engineering, it shows how the research has addressed the sustainable use of renewable and non-renewable resources. It also presents possible solutions to help achieve sustainable production. The Mid-Term Conference of the Italian Association of Agricultural Engineering (AIIA) is part of a series of conferences, seminars and meetings that the AIIA organizes, together with other public and private stakeholders, to promote the creation and dissemination of new knowledge in the sector. The contributions included in the book were selected by means of a rigorous peer-review process, and offer an extensive and multidisciplinary overview of interesting solutions in the field of innovative biosystems engineering for sustainable agriculture.

Select Proceedings of TRACE 2018 Springer Nature

Providing an introduction to the crucially important topic of groundwater, this text covers all major fields of hydrogeology and includes outlines of the occurrence of groundwater in various rock types, the movement and storage of groundwater, the formulation of groundwater balances, the development of groundwater chemistry, as well as the practical application of hydrogeology for groundwater development. Following a unique systems approach to describe and connect its various elements, the

text also explores a large selection of examples of groundwater cases from various parts of the world. In addition, theoretical sections and examples are illustrated with a number of drawings, photos and computer printouts. Suitable for education in hydrogeology at postgraduate and graduate level, the text is also a useful reference tool for professionals and decision-makers involved in water or water-related activities. In the revised paperback edition of Introduction to Hydrogeology (February 2006), suggestions of reviewers, students and collaegues have been taken into account. This means that more attention is paid to the processes in the unsaturated zone, especially those relating to groundwater recharge. Also, in the revised edition, the investigation methods are highlighted in the sections where the related theory is dealt with, and they are not presented in the last chapter on groundwater management. Chapter titles are re-named and some definitions are adjusted. The References and Bibliography section is also extended, some figures are improved, and the unevitable ‘typing errors’ are corrected as well.

Transactions of the American Society of Civil Engineers Springer Nature This book comprises select papers presented at the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2018). The book covers

inter-disciplinary research and applications in integrated water resource management, river ecology, irrigation system, water pollution and treatment, hydraulic structure and hydro-informatics. The topics on water resource management include technological intervention and solution for climate change impacts on water resources, water security, clean water to all, sustainable water reuse, flood risk assessment, interlinking of rivers and hydro policy. The contents of this book will be useful to researchers and professionals working in the field of water resource management and related policy making.

Current Trends in Civil Engineering Springer Nature

This book comprises select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) Characterization of Geomaterials and Physical Modelling; (ii) Foundations and Deep Excavations; (iii) Soil Stabilization and Ground Improvement; (iv) Geoenvironmental Engineering and Waste Material Utilization; (v) Soil Dynamics and Earthquake Geotechnical Engineering; (vi) Earth Retaining Structures, Dams and Embankments; (vii) Slope Stability and Landslides; (viii)

Transportation Geotechnics; (ix) Geosynthetics Applications; (x) Computational, Analytical and Numerical Modelling; (xi) Rock Engineering, Tunnelling and Underground Constructions; (xii) Forensic Geotechnical Engineering and Case Studies; and (xiii) Others Topics: Behaviour of Unsaturated Soils, Offshore and Marine Geotechnics, Remote Sensing and GIS, Field Investigations, Instrumentation and Monitoring, Retrofitting of Geotechnical Structures, Reliability in Geotechnical Engineering, Geotechnical Education, Codes and Standards, and other relevant topics. The contents of this book are of interest to researchers and practicing engineers alike.

Select Proceedings of TRACE 2018 Springer

This Book Presents A Comprehensive Treatment Of The Various Dimensions Of Water Resources Engineering. The Fundamental Principles And Design Concepts Relating To Various Structures Are Clearly Highlighted. The Practical Application Of Design Concepts Is Emphasised Throughout The Book.The Text Is Profusely Illustrated By A Large Number Of Detailed Drawings Andphotographs. Several Worked Out Examples Are Also Included For A Better Understanding Of The Concepts.Practice Problems And Questions From Various Examinations Are Given For Exercise And Self-Test.This Revised Edition

Includes * A New Chapter On River Diversion Head Works Statistical Analysis Of Rainfall And Run-Off Data * Infiltration Indices And Storage Capacity Of Reservoirs * Design Of Sarda Type Canal Drop * Additional Photographs, Diagrams And Examples.The Book Would Serve As An Ideal Text For B.E. Civil Engineering Students And Amie Candidates. Practising Engineers And Candidates Appearing In Various Competitive Examinations Including Gate, Upsc And Ies Would Also Find This Book Very Useful.

Shallow Water Hydraulics CRC Press This book presents the selected peer-reviewed proceedings of the International Conference on Recent Trends and Innovations in Civil Engineering (ICRTICE 2019). The volume focuses on latest research and advances in the field of civil engineering and materials science such as design and development of new environmental materials, performance testing and verification of smart materials, performance analysis and simulation of steel structures, design and performance optimization of concrete structures, and building materials analysis. The book also covers studies in geotechnical engineering, hydraulic engineering, road and bridge engineering, building services design, engineering management, water resource engineering and renewable energy. The contents of this book will be useful for students, researchers and

professionals working in civil engineering.
The Annual American Catalog Springer Nature American national trade bibliography.
Innovative Biosystems Engineering for Sustainable Agriculture, Forestry and Food Production Springer This book presents the theory and computation of open channel flows, using detailed analytical, numerical and experimental results. The fundamental equations of open channel flows are derived by means of a rigorous vertical integration of the RANS equations for turbulent flow. In turn, the hydrostatic pressure hypothesis, which forms the core of many shallow water hydraulic models, is scrutinized by analyzing its underlying assumptions. The book's main focus is on one-dimensional models, including detailed treatments of unsteady and steady flows. The use of modern shock capturing finite difference and finite volume methods is described in detail, and the quality of solutions is carefully assessed on the basis of analytical and experimental results. The book's unique features include: • Rigorous derivation of the hydrostatic-based shallow water hydraulic models • Detailed treatment of steady open channel flows, including the computation of transcritical flow profiles • General analysis of gate maneuvers as the solution of a Riemann problem • Presents modern shock capturing finite volume

methods for the computation of unsteady free surface flows • Introduces readers to movable bed and sediment transport in shallow water models • Includes numerical solutions of shallow water hydraulic models for non-hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students, given that the theory and numerical methods are progressively introduced starting with the basics. As supporting material, a collection of source codes written in Visual Basic and inserted as macros in Microsoft Excel® is available. The theory is implemented step-by-step in the codes, and the resulting programs are used throughout the book to produce the respective solutions.

Recent Developments, Upcoming Technologies and New Concepts, Volume 2

Springer Nature

This book presents select proceedings of the 5th International Conference on Advances in Civil Engineering (ICACE 2020), covering basic civil engineering branches. The book covers some hands-on articles on different realistic problems in civil engineering. It highlights the current application of advanced civil engineering knowledge in developing countries. Various topics covered include construction and building materials, eco-friendly ground improvement, water and wastewater management, solid waste management,

durability of concrete structures, various aspects of foundation engineering, transportation engineering & planning scenarios in developing countries, and highway materials. A few articles also discussed the advancement in civil engineering fields from global perspectives too. The book will be useful for professionals and researchers working in the area of civil engineering.

The American Catalogue Springer

This book gathers selected contributions in the field of civil and structural engineering, as presented by international researchers and engineers at the International Conference on Materials Physics, Building Structures and Technologies in Construction, Industrial and Production Engineering (MPCPE), held in Vladimir, Russia on April 26-28 2021. The book covers a wide range of topics including the theory and design of capital construction facilities, engineering and hydraulic structures; development of innovative solutions in the field of modeling and testing of reinforced concrete, metal and wooden structures, as well as composite structures based on them; investigation of complex dynamic effects on construction objects, and many others directions. Intended for professional builders, designers and researchers. The contributions, which were selected by means of a rigorous international

peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.