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Fundamentals of Hydraulic Engineering Systems-Robert J. Houghtalen 2010 Fundamentals of Hydraulic Engineering Systems, Fourth Edition is a very useful reference for practicing engineers who want to review basic principles and their applications in hydraulic engineering systems. This fundamental treatment of engineering hydraulics balances theory with practical design solutions to common engineering problems. The author examines the most common topics in hydraulics, including hydrostatics, pipe flow, pipelines, pipe networks, pumps, open channel flow, hydraulic structures, water measurement devices, and hydraulic similitude and model studies. Chapters dedicated to groundwater, deterministic hydrology, and statistical hydrology make this text ideal for courses designed to cover hydraulics and hydrology in one semester.

Fault Diagnosis and Prognosis Techniques for Complex Engineering Systems-Hamid Reza Karimi 2021-06-28 Fault Diagnosis and Prognosis Techniques for Complex Engineering Systems gives a systematic description of the many facets of envisaging, designing, implementing, and experimentally exploring emerging trends in fault diagnosis and failure prognosis in mechanical, electrical, hydraulic and biomedical systems. The book is devoted to the development of mathematical methodologies for fault diagnosis and isolation, fault tolerant control, and failure prognosis problems of engineering systems. Sections present new techniques in reliability modeling, reliability analysis, reliability design, fault and failure detection, signal processing, and fault tolerant control of engineering systems. Sections focus on the development of mathematical methodologies for diagnosis and prognosis of faults or failures, providing a unified platform for understanding and applicability of advanced diagnosis and prognosis methodologies for improving reliability purposes in both theory and practice, such as vehicles, manufacturing systems, circuits, flights, biomedical systems. This book will be a valuable resource for different groups of readers – mechanical engineers working on vehicle systems, electrical engineers working on rotary machinery systems, control engineers working on fault detection systems, mathematicians and physician working on complex dynamics, and many more. Presents recent advances of theory, technological aspects, and applications of advanced diagnosis and prognosis methodologies in engineering applications Provides a series of the latest results, including fault detection, isolation, fault tolerant control, failure prognosis of components, and more Gives numerical and simulation results in each chapter to reflect engineering practices

Planning and Design of Engineering Systems-Graeme Dandy 2017-12-06 This newly updated book offers a comprehensive introduction to the scope and nature of engineering work, taking a rigorous but common sense approach to the solution of engineering problems. The text follows the planning, modelling and design phases of engineering projects through to implementation or construction, explaining the conceptual framework for undertaking projects, and then providing a range of techniques and tools for solutions. It focuses on engineering design and problem solving, but also involves economic, environmental, social and ethical considerations. This third edition expands significantly on the economic evaluation of projects and also includes a new section on intractable problems and systems, involving a discussion of wicked problems and soft systems methodology as well as the approaches to software development. Further developments include an array of additional interest boxes, worked examples, problems and up-to date references. Case studies and real-world examples are used to illustrate the role of the engineer and especially the methods employed in engineering practice. The examples are drawn particularly from the fields of civil and environmental engineering, but the approaches and techniques are more widely applicable to other branches of engineering. The book is aimed at first-year engineering students, but contains material to suit more advanced undergraduates. It also functions as a professional handbook, covering some of the fundamentals of engineering planning and design in detail.

Planning and Design of Engineering Systems, Second Edition, Second Edition-Graeme Dandy 2007-09-12 Providing students with a commonsense approach to the solution of engineering problems and packed full of practical case studies to illustrate the role of the engineer, the type of work involved and the methodologies employed in engineering practice, this textbook is a comprehensive introduction to the scope and nature of engineering. It outlines a conceptual framework for undertaking engineering projects then provides a range of techniques and tools for solving the sorts of problems that commonly arise. Focusing in particular on civil engineering design, problem solving, and the range of techniques and tools it employs, the authors also explore: creativity and problem solving, social and environmental issues, management, communications and law, and ethics the planning, design, modelling and analysis phases and the implementation or construction phase. Designed specifically for introductory courses on undergraduate engineering programs, this extensively revised and extended second edition is an invaluable resource for all new engineering undergraduates as well as non-specialist readers who are seeking information on the nature of engineering work and how it is carried out.

Urban Hydrology, Hydraulics, and Stormwater Quality-A. Osman Akan 2003-08-22 A practical introduction on today's challenge of controlling and managing the water resources used by and affected by cities and urbanized communities. The book offers an integrated engineering approach, covering the spectrum of urban watershed management, urban hydraulic systems, and overall stormwater management. Each chapter concludes with helpful problems. Solutions Manual available to qualified professors and instructors upon request. Introduces the reader to two popular, non-proprietary computer-modeling pro-grams: HEC-HMS (U.S. Army Corps of Engineers) and SWMM (U.S EPA).

Life-Cycle of Engineering Systems: Emphasis on Sustainable Civil Infrastructure-Jaap Bakker 2016-11-18 This volume contains the papers presented at IALCCE2016, the fifth International Symposium on Life-Cycle Civil Engineering (IALCCE2016), to be held in Delft, The Netherlands, October 16-19, 2016. It consists of a book of extended abstracts and a DVD with full papers including the Fazlur R. Khan lecture, keynote lectures, and technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special focus on structural damage processes, life-cycle design, inspection, monitoring, assessment, maintenance and rehabilitation, life-cycle cost of structures and infrastructures, life-cycle performance of special structures, and life-cycle oriented computational tools. The aim of the editors is to provide a valuable source for anyone interested in life-cycle of civil infrastructure systems, including students, researchers and practitioners from all areas of engineering and industry.

Reliability and Uncertainty Analyses in Hydraulic Design-Ben Chie Yen 1993-01-01 Prepared by the Subcommittee on Uncertainty and Reliability Analyses in Design of Hydraulic Structures of the Technical Committee on Probabilistic Approaches to Hydraulics of ASCE. This report contains 13 papers presenting the application of reliability analysis to the design and safety of hydraulic structures. Several recent major failures of engineering systems have raised public concern on the safety and reliability of engineering struct.ures. Decades ago, a quantitative evaluation of the reliability of structures was not possible and engineers used safety factors that were determined mainly through experience and judgement. Recent advances in probability methods and computers make it feasible to evaluate the contributions of various technologic and natural factors to the safety and reliability of structures.ØThe first four papers in this report discuss techniques pertinent to reliability and uncertainty analyses. The next nine papers explore how these techniques can be applied to dam safety, coastal floods, and hydraulic structures. The report concludes with a reprint of an article by Vrijling on the Eastern Scheldt Storm Surge Barrier of the Delta Project in the Netherlands and the use of reliability analysis for sewer design.

Intelligent Technologies and Engineering Systems-Jengnan Juang 2013-05-21 This book concentrates on intelligent technologies as it relates to engineering systems. The book covers the following topics: networking, signal processing, artificial intelligence, control and software engineering, intelligent electronic circuits and systems, communications, and materials and mechanical engineering. The book is a collection of original papers that have been reviewed by technical editors. These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems, held Dec. 13-15, 2012.

Open Channel Hydraulics-A. Osman Akan 2011-02-24 Open Channel Hydraulics is written for undergraduate and graduate civil engineering students, and practicing engineers. Written in clear and simple language, it introduces and explains all the main topics required for courses on open channel flows, using numerous worked examples to illustrate the key points. With coverage of both introduction to flows, practical guidance to the design of open channels, and more advanced topics such as bridge hydraulics and the problem of scour, Professor Akan's book offers an unparalleled user-friendly study of this important subject ·Clear and simple style suited for undergraduates and graduates alike ·Many solved problems and worked examples ·Practical and accessible guide to key aspects of open channel flow

Fundamentals of Hydraulic Engineering-Alan L. Prasuhn 1992 This text provides comprehensive treatment of hydraulic engineering in both closed conduit and open channel flow and a clear presentation, with more examples and problems than most competitors. The carefully organized coverage, beginning with basics of hydrology, pipelines, and open channels. Also includes both hydrologic background and traditional hydraulics. A good balance of theory and applications and extensive appendices, including selected computer programs, round out the text.

Practical Hydraulic Systems: Operation and Troubleshooting for Engineers and Technicians-Ravi Doddannavar 2005-02-07 Whatever your hydraulic applications, Practical Hydraulic Systems: Operation & Troubleshooting For Engineers & Technicians will help you to increase your knowledge of the fundamentals, improve your maintenance programs and become an excellent troubleshooter of problems in this area. Cutaways of all major components are included in the book to visually demonstrate the components' construction and operation. Developing an understanding of how it works leads to an understanding of how and why it fails. Multimedia views of the equipment are shown, to give as realistic a view of hydraulic systems as possible. The book is highly practical, comprehensive and interactive. It discusses Hydraulic Systems construction, design applications, operations, maintenance, and management issues and provides you with the most up-to-date information and Best Practice in dealing with the subject. * A focus on maintenance and troubleshooting makes this book essential reading for practising engineers. * Written to cover the requirements of mechanical / industrial and civil engineering. * Cutaway diagrams demonstrate the construction and operation of key equipment.

College of Engineering-University of Michigan. College of Engineering 1970

A Simple Approach to Reliability, Risk, and Uncertainty Analysis of Hydrologic, Hydraulic, and Environmental Engineering Systems-Aditya Tyagi 2000

Hydraulic Research in the United States 1970-United States. National Bureau of Standards 1971

Hydraulic Research in the United States- 1964

Advances in Water Resources & Hydraulic Engineering-Changkuan Zhang 2010-07-28 "Advances in Water Resources and Hydraulic Engineering - Proceedings of 16th IAHR-APD Congress and 3rd Symposium of IAHR-ISHS" discusses some serious problems of sustainable development of human society related to water resources, disaster caused by flooding or draught, environment and ecology, and introduces latest research in river engineering and fluvial processes, estuarine and coastal hydraulics, hydraulic structures and hydropower hydraulics, etc. The proceedings covers new research achievements in the Asian-Pacific region in water resources, environmental ecology, river and coastal engineering, which are especially important for developing countries all over the world. This proceedings serves as a reference for researchers in the field of water resources, water quality, water pollution and water ecology. Changkuan Zhang and Hongwu Tang both are professors at Hohai University, China.

Hydraulic Research in the United States and Canada-United States. National Bureau of Standards 1974

Knowledge-Based and Intelligent Information and Engineering Systems, Part I-Andreas Koenig 2011-09-06 The four-volume set LNAI 6881-LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2011, held in Kaiserslautern, Germany, in September 2011. Part 1: The total of 244 high-quality papers presented were carefully reviewed and selected from numerous submissions. The 61 papers of Part 1 are organized in topical sections on artificial neural networks, connectionists systems and evolutionary computation, machine learning and classical AI, agent, multi-agentsystems, knowledge based and expert systems, intelligent vision, image processing and signal processing, knowledge management, ontologies, and data mining.

Hydraulic Servo-systems-Mohieddine Jelali 2012-12-06 This up-to-date book details the basic concepts of many recent developments of nonlinear identification and nonlinear control, and their application to hydraulic servo-systems. It is very application-oriented and provides the reader with detailed working procedures and hints for implementation routines and software tools.

Hydraulic Structure,Equipment and Water Data Acquisition Systems - Volume IV-Jan Malan Jordaan 2009-11-25 Hydraulic Structure, Equipment and Water Data Acquisition Systems is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Hydraulic structures occupied a vital role in the development of civilization from the earliest recorded history up to the present, and undoubtedly will do so in the future. Humanity in ancient times settled mostly near perennial rivers, nomadic people frequented oases and springs, and to augment these natural ephemeral supplies, established societies built primitive dams and dug wells. This 4-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the fields of Hydraulic Structure, Equipment and Water Data Acquisition Systems. In these volumes the historical origins, modern developments, and future perspectives in the field of water supply engineering are discussed. Various types of hydraulic structures, their associated equipment, and the various systems for collecting data are described. These four volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

Introduction to Tsallis Entropy Theory in Water Engineering-Vijay P. Singh 2016-01-05 Focuses On an Emerging Field in Water EngineeringA broad treatment of the Tsallis entropy theory presented from a water resources engineering point of view, Introduction to Tsallis Entropy Theory in Water Engineering fills a growing need for material on this theory and its relevant applications in the area of water engineering. This self-contained

Water-Quality Engineering in Natural Systems-David A. Chin 2021-03-16 This textbook describes in detail the fundamental equations that govern the fate and transport of contaminants in the environment, and covers the application of these equations to engineering design and environmental impact analysis relating to contaminant discharges into rivers, lakes, wetlands, groundwater, and oceans. The third edition provides numerous end-of-chapter problems and an expanded solutions manual. Also introduced in this edition are PowerPoints slides for all chapters so that instructors have a ready-made course. Key distinguishing features of this book include: detailed coverage of the science behind water-quality regulations, state-of-the-art methods for calculating total maximum daily loads (TMDLs) for the remediation of impaired waters, modeling and control of nutrient levels in lakes and reservoirs, design of constructed treatment wetlands, design of groundwater remediation systems, design of ocean outfalls, control of oil spills in the ocean, and the design of systems to control the quality of surface runoff from watersheds into their receiving waters. In addition, the entire book is updated to provide the latest advances in the field of water-quality control. For example, concepts such as mixing zones are expanded to include physical nature and regulatory importance of mixing zones, practical aspects of outfall and diffuser design are also included, specific details of water-quality modeling are updated to reflect the latest developments on this topic, and new findings relating to priority and emerging pollutants are added.

Entropy and Energy Dissipation in Water Resources-V.P. Singh 2012-12-06 Since the landmark contributions of C. E. Shannon in 1948, and those of E. T. Jaynes about a decade later, applications of the concept of entropy and the principle of maximum entropy have proliterated in science and engineering. Recent years have witnessed a broad range of new and exciting developments in hydrology and water resources using the entropy concept. These have encompassed innovative methods for hydrologic network design, transfer of information, flow forecasting, reliability assessment for water distribution systems, parameter estimation, derivation of probability distributions, drainage-network analysis, sediment yield modeling and pollutant loading, bridge-scour analysis, construction of velocity profiles, comparative evaluation of hydrologic models, and so on. Some of these methods hold great promise for advancement of engineering practice, permitting rational alternatives to conventional approaches. On the other hand, the concepts of energy and energy dissipation are being increasingly applied to a wide spectrum of problems in environmental and water resources. Both entropy and energy dissipation have their origin in thermodynamics, and are related concepts. Yet, many of the developments using entropy seem to be based entirely on statistical interpretation and have seemingly little physical content. For example, most of the entropy-related developments and applications in water resources have been based on the information-theoretic interpretation of entropy. We believe if the power of the entropy concept is to be fully realized, then its physical basis has to be established.

Innovations and Approaches for Resilient and Adaptive Systems-De Florio, Vincenzo 2012-09-30 Our society continues to depend upon systems that are built in a way that they end up being inflexible and intolerant to change. Therefore there is an urgent need to investigate innovations and approaches to the management of adaptive and dependable systems. These studies are usually implemented through design, development, and the evaluation of techniques and models to structure computer systems as adaptive systems. Innovations and Approaches for Resilient and Adaptive Systems is a comprehensive collection of knowledge on increasing the notions and models in adaptive and dependable systems. This book aims to enhance the awareness of the role of adaptability and resilience in system environments for researchers, practitioners, educators, and professionals alike.

Improving Efficiency and Reliability in Water Distribution Systems-Enrique Cabrera 2013-03-14 This book contains the lectures given in the International Course "Improving efficiency and reliability in water supply systems", hosted and sponsored by the Menendez Pelayo International University (U.I.M.P.) and co-sponsored by Aguas de Valencia, the British Council and the EC Cornett and Erasmus programmes. The short course took place in Valencia (Spain) in November 1994, with an attendance of more than one hundred delegates. We must not only acknowedge and thank Dr. Joaquin Azagra, as UIMP Director, but also his collaborators D. Luis Moreno and Lidia Lopez for their support in the preparation of the Course and during the course taking place. UIMP sponsorship allowed us to assemble in Valencia an eminent cadre of lecturers coming from all over the world, that covered in an ordered and precise fashion some of the more relevant aspects on efficiency and reliability in water supply systems. We are very thankful to all these leading lecturers for their invaluable cooperation. The publication of this book and the Spanish edition as well, have been made possible thanks to the sponsorship of both Polytechnic University of Valencia througout its Chancellor, Justo Nieto, and Aguas de Valencia throughout its General Director Alvaro Aguirre. We must also thank Kluwer Academic Publishers and especially their Publisher Petra van Steenbergen for her assistance, careful presentation and production of the book.

Hydraulic Engineering-Liquan Xie 2013-03-12 Hydraulic Engineering contains 56 technical papers from the 2012 SREE Conference on Hydraulic Engineering (CHE 2012, Hong Kong, 21-22 December 2012, including the second SREE Workshop on Environment and Safety, WESE 2012). The conference served as a major forum for researchers, engineers and manufacturers to share recent advances, discuss problems, and identify challenges associated with engineering applications in hydraulic engineering, and the contributions showcase recent developments in the areas of hydraulic engineering and environmental engineering. The sections on hydraulic engineering mainly focus on flood prediction and control, hydropower design and construction technology, water and environment, comprehensive water treatment, and urban water supply and drainage, while the contributions related to environmental issues focus on environmental prediction and control techniques in environmental geoscience, environmental ecology, atmospheric sciences, ocean engineering, safety engineering and environmental pollution control. Hydraulic Engineering will be invaluable to academics and professionals in both hydraulic and environmental engineering.

Energy Dissipation in Hydraulic Structures-Hubert Chanson 2015-05-12 Recent advances in technology have permitted the construction of large dams, reservoirs and channels. This progress has necessitated the development of new design and construction techniques, particularly with the provision of adequate flood release facilities. Chutes and spillways are designed to spill large water discharges over a hydraulic struc

Hydraulic Structure,Equipment and Water Data Acquisition Systems - Volume I-Jan Malan Jordaan 2009-11-25 Hydraulic Structure, Equipment and Water Data Acquisition Systems is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Hydraulic structures occupied a vital role in the development of civilization from the earliest recorded history up to the present, and undoubtedly will do so in the future. Humanity in ancient times settled mostly near perennial rivers, nomadic people frequented oases and springs, and to augment these natural ephemeral supplies, established societies built primitive dams and dug wells. This 4-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the fields of Hydraulic Structure, Equipment and Water Data Acquisition Systems. In these volumes the historical origins, modern developments, and future perspectives in the field of water supply engineering are discussed. Various types of hydraulic structures, their associated equipment, and the various systems for collecting data are described. These four volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

Hydraulic Structure,Equipment and Water Data Acquisition Systems - Volume III-Jan Malan Jordaan 2009-11-25 Hydraulic Structure, Equipment and Water Data Acquisition Systems is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Hydraulic structures occupied a vital role in the development of civilization from the earliest recorded history up to the present, and undoubtedly will do so in the future. Humanity in ancient times settled mostly near perennial rivers, nomadic people frequented oases and springs, and to augment these natural ephemeral supplies, established societies built primitive dams and dug wells. This 4-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the fields of Hydraulic Structure, Equipment and Water Data Acquisition Systems. In these volumes the historical origins, modern developments, and future perspectives in the field of water supply engineering are discussed. Various types of hydraulic structures, their associated equipment, and the various systems for collecting data are described. These four volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

Open Channel Hydraulics, River Hydraulic Structures and Fluvial Geomorphology-Artur Radecki-Pawlik 2017-09-07 This book presents practical hydraulic and river engineering research along with fluvial geomorphological concepts, and links the theoretical and practical knowledge of people working every day with rivers, streams, and hydraulic structures to fluvial geomorphology. Besides providing a guide for professionals, this book also provides material for students to acquire the knowledge and skills to rehabilitate rivers, streams, and waterways.

River Flow 2016-George Constantinescu 2016-06-22 Understanding and being able to predict fluvial processes is one of the biggest challenges for hydraulics and environmental engineers, hydrologists and other scientists interested in preserving and restoring the diverse functions of rivers. The interactions among flow, turbulence, vegetation, macroinvertebrates and other organisms, as well as the transport and retention of particulate matter, have important consequences on the ecological health of rivers. Managing rivers in an ecologically friendly way is a major component of sustainable engineering design, maintenance and restoration of ecological habitats. To address these challenges, a major focus of River Flow 2016 was to highlight the latest advances in experimental, computational and theoretical approaches that can be used to deepen our understanding and capacity to predict flow and the associated fluid-driven ecological processes, anthropogenic influences, sediment transport and morphodynamic processes. River Flow 2016 was organized under the auspices of the Committee for Fluvial Hydraulics of the International Association for Hydro-Environment Engineering and Research (IAHR). Since its first edition in 2002, the River Flow conference series has become the main international event focusing on river hydrodynamics, sediment transport, river engineering and restoration. Some of the highlights of the 8th International Conference on Fluvial Hydraulics were to focus on inter-disciplinary research involving, among others, ecological and biological aspects relevant to river flows and processes and to emphasize broader themes dealing with river sustainability. River Flow 2016 (extended abstract book 854 pages + full paper CD-ROM 2436 pages) contains the contributions presented during the regular sessions covering the main conference themes and the special sessions focusing on specific hot topics of river flow research, and will be of interest to academics interested in hydraulics, hydrology and environmental engineering.

Commercial Aircraft Hydraulic Systems-Shaoping Wang 2015-10-09 Commercial Aircraft Hydraulic Systems: Shanghai Jiao Tong University Press Aerospace Series focuses on the operational principles and design technology of aircraft hydraulic systems, including the hydraulic power supply and actuation system and describing new types of structures and components such as the 2H/2E structure design method and the use of electro hydrostatic actuators (EHAs). Based on the commercial aircraft hydraulic system, this is the first textbook that describes the whole lifecycle of integrated design, analysis, and assessment methods and technologies, enabling readers to tackle challenging high-pressure and high-power hydraulic system problems in university research and industrial contexts. Commercial Aircraft Hydraulic Systems is the latest in a series published by the Shanghai Jiao Tong University Press Aerospace Series that covers the latest advances in research and development in aerospace. Its scope includes theoretical studies, design methods, and real-world implementations and applications. The readership for the series is broad, reflecting the wide range of aerospace interest and application. Titles within the series include Reliability Analysis of Dynamic Systems, Wake Vortex Control, Aeroacoustics: Fundamentals and Applications in Aeropropulsion Systems, Computational Intelligence in Aerospace Engineering, and Unsteady Flow and Aeroelasticity in Turbomachinery. Presents the first book to describe the interface between the hydraulic system and the flight control system in commercial aircraft Focuses on the operational principles and design technology of aircraft hydraulic systems, including the hydraulic power supply and actuation system Includes the most advanced methods and technologies of hydraulic systems Describes the interaction between hydraulic systems and other disciplines

Advanced Applications of Hydrogen and Engineering Systems in the Automotive Industry-Luigi Cocco 2021-04-28 The automobile industry is tremendously peculiar due to several strict requirements regarding functional reliability, safety standards, comfort level, high-volume production, and environmental limits. In addition, the industry is experiencing a disruptive evolution of modern vehicle research and design: electrification, connectivity, and autonomous driving. This book provides a robust overview of automotive engineering, including new proposals and the latest trends in road vehicle systems and sub-systems. Each chapter presents a rigorous analysis or a new solution in a clear and concise manner, such that professional and academic readers will appreciate both the theory dissertation and the industrial application.

Hydraulic Structure,Equipment and Water Data Acquisition Systems - Volume II-Jan Malan Jordaan 2009-11-25 Hydraulic Structure, Equipment and Water Data Acquisition Systems is a component of Encyclopedia of Water Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Hydraulic structures occupied a vital role in the development of civilization from the earliest recorded history up to the present, and undoubtedly will do so in the future. Humanity in ancient times settled mostly near perennial rivers, nomadic people frequented oases and springs, and to augment these natural ephemeral supplies, established societies built primitive dams and dug wells. This 4-volume set contains several chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It carries state-of-the-art knowledge in the fields of Hydraulic Structure, Equipment and Water Data Acquisition Systems. In these volumes the historical origins, modern developments, and future perspectives in the field of water supply engineering are discussed. Various types of hydraulic structures, their associated equipment, and the various systems for collecting data are described. These four volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

Large Engineering Systems-Alvin Wexler 2014-05-18 Large Engineering Systems documents the proceedings of the International Symposium held at the University of Manitoba, Canada on August 9-12, 1976. This book compiles papers on the technology of large engineering systems. The topics discussed include the analysis of an automobile body by finite element method; finite-element solution of boundary integral equations; optimum design of stiffened plate girders; and tuning of miniaturized analog hybrid circuits. The sparsity in large systems and trans-shipment problems; finite difference method with graded lattices; Kron's multidimensional electromagnetic networks; and analyses of large systems are also deliberated. This text likewise covers the transient phenomena in large electrical power systems; modeling for regional electric power supply system; and efficient method for reliability evaluation of large-scale systems. This publication is a good source for engineers who intend to acquire knowledge on large-scale engineering systems.

Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013)-Jengnan Juang 2014-04-18 This book includes the original, peer reviewed research papers from the conference, Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013), which took place on December 12-14, 2013 at Cheng Shiu University in Kaohsiung, Taiwan. Topics covered include: laser technology, wireless and mobile networking, lean and agile manufacturing, speech processing, microwave dielectrics, intelligent circuits and systems, 3D graphics, communications and structure dynamics and control.

University of Michigan Official Publication- 1967

Advances in Water Supply Management-Č Maksimović 2003

Hydraulic Research in the United States and Canada, 1972-Gershon Kulin 1974

Water for Peace: Organizing for water programs- 1968