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HARLEY HICKS

Cognitive Radio Technology Trans Tech Publications Ltd

This scholarly set of well-harmonized volumes provides indispensable and complete coverage of the exciting and evolving subject of medical imaging systems. Leading experts on the international scene tackle the latest cutting-edge techniques and technologies in an in-depth but eminently clear and readable approach. Complementing and intersecting one another, each volume offers a comprehensive treatment of substantive importance to the subject areas. The chapters, in turn, address topics in a self-contained manner with authoritative introductions, useful summaries, and detailed reference lists. Extensively well-illustrated with figures throughout, the five volumes as a whole achieve a unique depth and breath of coverage. As a cohesive whole or independent of one another, the volumes may be acquired as a set or individually.

Advances in Contact Angle, Wettability and Adhesion Elsevier

Probabilistic structural dynamics offers unparalleled tools for analyzing uncertainties in structural design. Once avoided because it is mathematically rigorous, this technique has recently reemerged with the aid of computer software. Written by an author/educator with 40 years of experience in structural design, this user friendly manual integrates theories, formulas and mathematical models to produce a guide that will allow professionals to quickly grasp concepts and start solving problems. In this book, the author uses simple examples that provide templates for creating of more robust case studies later in the book. *Problems are presented in an easy to understand form *Practical guide to software programs to solve design problems *Packed with examples and case studies of actual projects *Classical and the new stochastic factors of safety

State of Technology for Rehabilitation of Water Distribution Systems Gulf Professional Publishing

A major goal of this special collection of 47 peer-reviewed papers was to gather together the current knowledge of academic scientists, engineers and industrial researchers and have them share their experiences and research results concerning every aspect of green building technologies and materials, and discuss the practical challenges encountered and the solutions adopted. An interesting guide to this increasingly relevant subject. Volume is indexed by Thomson Reuters CPCI-S (WoS).

Structural Analysis American Water Works Association

Unearth the Secrets of Designing and Building High-Quality Buried Piping Systems This brand-new edition of Buried Pipe Design helps you analyze the performance of a wide range of pipes, so you can determine the proper pipe and installation system for the job. Covering almost every type of rigid and flexible pipe, this unique reference identifies and describes factors involved in working with sewer and drain lines, water and gas mains, subway tunnels, culverts, oil and coals slurry lines, and telephone and electrical conduits. It provides clear examples for designing new municipal drinking and wastewater systems or rehabilitating existing ones that will last for many years on end. Comprehensive in scope and meticulously detailed in content, this is the pipe design book you'll want for a reference. This NEW edition includes: Important data on the newest pipe styles, including profile-wall polyethylene Updated references to ASTM, AWWA, and ASHTTO, standards Numerous examples of specific types of pipe system designs Safety precautions included in installation specifications Greater elaboration on trenchless technology methods New information on the cyclic life of PVC pressure pipe Buried Pipe Design covers the ins and outs of: External Loads Gravity Flow Pipe Design Pressure Pipe Design Rigid Pipe Products Flexible Steel Pipe Flexible Ductile Iron Pipe Flexible Plastic Pipe Pipe Installation Trenchless Technology

Continuous Monitoring for Hazardous Material Releases ASM Press

Structural Analysis: In Theory and Practice provides a comprehensive review of the classical methods of structural analysis and also the recent advances in computer applications. The perfect guide for the Professional Engineer's exam, Williams covers principles of structural analysis to advanced concepts. Methods of analysis are presented in a concise and direct manner and the different methods of approach to a problem are illustrated by specific examples. In addition, the book include the clear and concise approach to the subject and the focus on the most direct solution to a problem. Numerous worked examples are provided to consolidate the readers' understanding of the topics. Structural Analysis: In Theory and Practice is perfect for anyone who wishes to have handy reference filled with equations, calculations and modeling instructions as well as candidates studying for professional engineering registration examinations. It will also serve as a refresher course and reference manual for practicing engineers. Registered professional engineers and registered structural Numerous worked examples are provided to consolidate the readers understanding of the topics Comprehensive coverage of the whole field of structural analysis Supplementary problems are given at the end of each chapter with answers provided at the end of the book Realistic situations encountered in practice and test the reader's ability to apply the concepts presented in the chapter Classical methods of structural analysis and also the recent advances in computer applications

Liquid-filled Projectile Design ASTM International

"What Went Wrong?" has revolutionized the way industry views safety. The new edition continues and extends the wisdom, innovations and strategies of previous editions, by introducing new material on recent incidents, and adding an extensive new section that shows how many accidents occur through simple miscommunications within the organization, and how straightforward changes in design can often remove or reduce opportunities for human errors. Kletz' approach to learning as deeply as possible from previous experiences is made yet more valuable in this new edition, which for the first time brings together the approaches and cases of "What Went Wrong" with the managerially focussed material previously published in "Still Going Wrong". Updated and supplemented with new cases and analysis, this fifth edition is the ultimate resource of experienced based analysis and guidance for the safety and loss prevention professionals. * A million dollar bestseller, this trusted book is updated with new material, including the Texas City and Buncefield incidents, and supplemented by material from Trevor Kletz's 'Still Going Wrong' * Now presents a complete analysis of the design, operational and for the first time, managerial causes of process plant accidents and disasters, plus their aftermaths * Case histories illustrate what went wrong, why it went wrong, and then guide readers in how to avoid similar tragedies: learn from the mistakes of others

Design, Operation, and Maintenance for Sustainable Underground Storage Facilities Elsevier

Annotation A comprehensive guide to the technology underlying drives, motors and control units,

this title contains a wealth of technical information for the practising drives and electrical engineer.

Design and Installation John Wiley & Sons

This book unifies and enhances the accessibility of contemporary scholarly research on advances in coastal modeling. A comprehensive spectrum of innovative models addresses the wide diversity and multifaceted aspects of coastal research on the complex natural processes, dynamics, interactions and responses of the coastal supersystem and its associated subsystems. The twenty-one chapters, contributed by internationally recognized coastal experts from fourteen countries, provide invaluable insights on the recent advances and present state-of-the-art knowledge on coastal models which are essential for not only illuminating the governing coastal process and various characteristics, but also for understanding and predicting the dynamics at work in the coastal system. One of the unique strengths of the book is the impressive and encompassing presentation of current functional and operational coastal models for all those concerned with and interested in the modeling of seas, oceans and coasts. In addition to chapters modeling the dynamic natural processes of waves, currents, circulatory flows and sediment transport there are also chapters that focus on the modeling of beaches, shorelines, tidal basins and shore platforms. The substantial scope of the book is further strengthened with chapters concentrating on the effects of coastal structures on nearshore flows, coastal water quality, coastal pollution, coastal ecological modeling, statistical data modeling, and coupling of coastal models with geographical information systems.

Buried Plastic Pipe Technology John Wiley & Sons

This title is published by the American Society for Microbiology Press and distributed by Taylor and Francis in rest of world territories.

Subsea Pipelines and Risers SME

Civil Engineer's Reference Book, Fourth Edition provides civil engineers with reports on design and construction practices in the UK and overseas. It gives a concise presentation of theory and practice in the many branches of a civil engineer's profession and it enables them to study a subject in greater depth. The book discusses some improvements in earlier practices, for example in surveying, geotechnics, water management, project management, underwater working, and the control and use of materials. Other changes covered are from the evolving needs of clients for almost all forms of construction, maintenance and repair. Another major change is the introduction of new national and Euro-codes based on limit state design, covering most aspects of structural engineering. The fourth edition incorporates these advances and, at the same time, gives greater prominence to the special problems relating to work overseas, with differing client requirements and climatic conditions. Chapters 1 to 10 provide engineers, at all levels of development, with 'lecture notes' on the basic theories of civil engineering. Chapters 11 to 44 cover the practice of design and construction in many of the fields of civil engineering. Civil engineers, architects, lawyers, mechanical engineers, insurers, clients, and students of civil engineering will find benefit in the use of this text.

Advances in Coastal Modeling American Water Works Association

A compilation of engaging and insightful papers from the prestigious 2009 Plant Design Symposium, the volume is a sequel to Mineral Processing Plant Design, Practice, and Control, an industry standard published in 2002. Both books are indispensable texts for university-level instruction, as well as valuable guides for operators considering new construction, plant renovation, or expansion. You'll learn the role of innovation, how to finance and conduct feasibility studies, and how to reduce your plant's carbon footprint.

Fiberglass Pipe Design, 2nd Ed. (M45) Elsevier

This important book provides a guide to the fundamentals and latest developments in smart technology for textiles and clothing. The contributors represent a distinguished international panel of experts and the book covers many aspects of cutting edge research and development. Smart fibres, fabrics and clothing starts with a review of the background to smart technology and goes on to cover a wide range of the material science and fibre science aspects of the technology including: Electrically active polymeric materials and the applications of nonionic polymer gel and elastomers for artificial muscles; Thermally sensitive fibres and fabrics; Cross-linked polyol fibrous substrates stimuli-responsive interpenetrating polymer network hydrogel; Permeation control through stimuli-responsive polymer membranes; optical fibre sensors, hollow fibre membranes for gas separation; integrating fibre-formed components into textile structures; Wearable electronic and photonic technologies; Adaptive and responsive textile structures (ARTS); Biomedical applications including the applications of scaffolds in tissue engineering It is essential reading for academics in textile and materials science departments, researchers, designers and engineers in the textiles and clothing product design field. Product managers and senior executives within textile and clothing manufacturing will also find the latest insights into technological developments in the field valuable and fascinating.

M9 CreateSpace

The impact that the lack of investment in water infrastructure will have on the performance of aging underground infrastructure over time is well documented and the needed funding estimates range as high as \$325 billion over the next 20 years. With the current annual replacement rate averaging 0.5%, pipes would be expected to last for 200 years, but most pipes are designed for 50 or 100 year life cycles. While this replacement rate may be sufficient in the immediate term because pipes are still relatively young, as systems grow older, the necessary replacement rates will inevitably increase. In addition to the necessary funding, congestion above and below ground is making the replacement of water mains more difficult for utility owners as is the lack of public tolerance for the disruption caused by construction work. There is an increasing availability of technologies for rehabilitation of existing pipes, which provides solutions that minimize or alleviate these problems, while providing realistic and potentially cost-effective alternatives to traditional open cut replacement.

Medical Imaging Systems Technology: Modalities Elsevier

Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook, edited by Mohinder L. Nayyar, with contribution from top experts in the field. The Handbook's 43 chapters--14 of them new to this edition--and 9 new appendices provide, in one place, everything you need to work with any type of piping, in any type of piping system: design layout selection of materials fabrication and components operation installation maintenance This world-class reference is packed with a comprehensive array of analytical tools, and illustrated with fully-worked-out examples and case

histories. Thoroughly updated, this seventh edition features revised and new information on design practices, materials, practical applications and industry codes and standards—plus every calculation you need to do the job.

Extended Defects in Semiconductors ASM International

Originally published in 1994, this second edition of *Corrosion in the Petrochemical Industry* collects peer-reviewed articles written by experts in the field of corrosion that were specifically chosen for this book because of their relevance to the petrochemical industry. This edition expands coverage of the different forms of corrosion, including the effects of metallurgical variables on the corrosion of several alloys. It discusses protection methods, including discussion of corrosion inhibitors and corrosion resistance of aluminum, magnesium, stainless steels, and nickels. It also includes a section devoted specifically to petroleum and petrochemical industry related issues.

Principles and Practices American Water Works Association

Whether occurring accidentally or through acts of terrorism, catastrophic chemical releases must be identified early in order to mitigate their consequences. Continuous sensor monitoring can detect catastrophic chemical releases early enough to curb extreme amounts of damage. In several notable instances, such monitors have not been used appropriately, or have fallen short of what they should have been capable of delivering. This book provides the technical background and guidance needed to get the most from this emerging technique and details the essentials of preparing any workplace from falling victim to a gas-leak catastrophe.

Properties of Lithium Niobate Butterworth-Heinemann

The overall goal of this project was to identify t

Mission-Critical and Safety-Critical Systems Handbook IET

Metal machining is the most widespread metal-shaping process in the mechanical manufacturing industry. World-wide investment in metal machining tools increases year on year - and the wealth of nations can be judged by it. This text - the most up-to-date in the field - provides in-depth discussion of the theory and application of metal machining at an advanced level. It begins with an overview of the development of metal machining and its role in the current industrial environment and continues with a discussion of the theory and practice of machining. The underlying mechanics are analysed in detail and there are extensive chapters examining applications through a discussion of simulation and process control. "Metal Machining: Theory and Applications" is essential reading for senior undergraduates and postgraduates specialising in cutting technology. It is also an invaluable reference tool for professional engineers. Professors Childs, Maekawa, Obikawa and Yamane are four of the leading authorities on metal machining and have worked together for many years. Of interest

to all mechanical, manufacturing and materials engineers Theoretical and practical problems addressed

Awwa C950-13 Fiberglass Pressure Pipe Royal Society of Chemistry

This is the third Volume in the series "Advances in Contact Angle, Wettability and Adhesion" initiated to consolidate information and provide commentary on certain recent research aspects dealing with this important topic. Its predecessor Volumes 1 and 2 were published in 2013 and 2015, respectively. This new book comprising 15 research and review articles is divided into four parts: Part 1: Contact Angle Measurement and Analysis; Part 2: Wettability Behavior; Part 3: Hydrophobic/Superhydrophobic Surfaces; Part 4: Wettability, Surface Free Energy and Adhesion. The topics covered include: O Procedure to measure and analyse contact angles/drop shape behaviors. O Contact angle measurement considering spreading, evaporation and reactive substrate. O Measurement of contact angle of a liquid on a substrate of the same liquid. O Evolution of the axisymmetric droplet shape parameters. O Interfacial modulus of a solid surface. O Functionalization of textiles using UV-based techniques for surface modification—patterned wetting behavior. O Wettability behavior of oleophilic and oleophobic nanorough surfaces. O Wettability behavior of nanofluids. O Dielectrowetting for digital microfluidics. O Hydrophobicity and superhydrophobicity in fouling prevention. O Superhydrophobic/superhydrophilic hybrid surface. O Laser material processing for enhancing stem cell growth. O Wettability correlation for bioadhesion to different materials. O Determination of the surface free energy of solid surfaces: statistical consideration. O Determination of apparent surface free energy using hysteresis approach.

Smart Fibres, Fabrics and Clothing World Scientific Publishing Company Incorporated

The use of plastic materials has seen a massive increase in recent years, and generation of plastic wastes has grown proportionately. Recycling of these wastes to reduce landfill disposal is problematic due to the wide variation in properties and chemical composition among the different types of plastics. Feedstock recycling is one of the alternatives available for consideration, and Feedstock Recycling of Plastic Wastes looks at the conversion of plastic wastes into valuable chemicals useful as fuels or raw materials. Looking at both scientific and technical aspects of the recycling developments, this book describes the alternatives available. Areas include chemical depolymerization, thermal processes, oxidation and hydrogenation. Besides conventional treatments, new technological approaches for the degradation of plastics, such as conversion under supercritical conditions and coprocessing with coal are discussed. This book is essential reading for those involved in plastic recycling, whether from an academic or industrial perspective. Consultants and government agencies will also find it immensely useful.