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Soil Mechanics

Hydrocolloids are among the most widely used ingredients in the food industry. They function as thickening and gelling agents, texturizers, stabilisers and emulsifiers and in addition have application in areas such as edible coatings and flavour release. Products reformulated for fat reduction are particularly dependent on hydrocolloids for satisfactory sensory quality. They now also find increasing applications in the health area as dietary fibre of low calorific value. The first edition of Handbook of Hydrocolloids provided professionals in the food industry with relevant practical information about the range of hydrocolloid ingredients readily and at the same time authoritatively. It was exceptionally well received and has subsequently been used as the substantive reference on these food ingredients. Extensively revised and expanded and containing eight new chapters, this major new edition strengthens that reputation. Edited by two leading international authorities in the field, the second edition reviews over twenty-five hydrocolloids, covering structure and properties, processing, functionality, applications and regulatory status. Since there is now greater emphasis on the protein hydrocolloids, new chapters on vegetable proteins and egg protein have been added. Coverage of microbial polysaccharides has also been increased and the developing role of the exudate gums recognised, with a new chapter on Gum Ghatti. Protein-polysaccharide complexes are finding increased application in food products and a new chapter on this topic has been added. Two additional chapters reviewing the role of hydrocolloids in emulsification and their role as dietary fibre and subsequent health benefits are also included. The second edition of Handbook of hydrocolloids is an essential reference for post-graduate students, research scientists and food manufacturers. Extensively revised and expanded

second edition edited by two leading international authorities Provides an introduction to food hydrocolloids considering regulatory aspects and thickening characteristics Comprehensively examines the manufacture, structure, function and applications of over twenty five hydrocolloids

Managing Next Generation Networks and Services

Mitigating the effects of earthquakes is crucial to bridge design. With chapters culled from the best-selling Bridge Engineering Handbook, this volume sets forth the principles and applications of seismic design, from the necessary geotechnical and dynamic analysis background to seismic isolation and energy dissipation, active control, and retrofit technology. In-depth discussions contributed by bridge and earthquake engineers from around the world cover the types and effects of earthquake damage and structural performance criteria. The book also includes an overview of seismic design practices in Japan, including a study of the damage to highway bridges caused by the Hyogo-ken Nanbu earthquake and the changes in retrofit practices precipitated by that earthquake.

Visceral and Obstetric Osteopathy

Base isolation, passive energy dissipation and active control represent three innovative technologies for protection of structures under environmental loads. Increasingly, they are being applied to the design of new structures or to the retrofit of existing structures against wind, earthquakes and other external loads. This book, with contributions from leading researchers from Japan, Europe, and the United States, presents a balanced view of current research and world-wide development in this exciting and fast expanding field. Basic principles as well as practical design and implementational issues associated with the application of base isolation systems and passive and active control devices to civil engineering structures are carefully addressed. Examples of structural applications are presented and extensively discussed.

Home Blood Pressure Monitoring

This volume presents a broad selection of cutting-edge methods and tools that will enable the reader to investigate the multi-faceted manifestations of inflammation. Inflammation: Methods and Protocols is divided into four sections: the first three sections describe protocols investigating immune-mediated inflammatory disease models affecting barrier organs to the environment; the skin, the lung, and the intestinal and oral mucosa. The fourth section illustrates inflammatory disease models of the brain, joints, and vasculature. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and practical,

Inflammation: Methods and Protocols aims to inspire the experienced investigator and the young experimenter alike to disentangle the fascinating process of inflammation.

Mastering Revit Architecture 2010

Although tubular structures are reasonably well understood by designers of offshore platforms, onshore applications often suffer from "learning curve" problems, particularly in the connections, tending to inhibit the wider use of tubes. This book was written primarily to help this situation. Representing 25 years of work by one of the pioneers in the field of tubular structures, the book covers research, synthesis of design criteria, and successful application to the practical design, construction, inspection, and lifetime monitoring of major structures. Written by the principal author of the AWS D1.1 Code Provisions for Tubular Structures this book is intended to be used in conjunction with the AWS Structural Welding Code - Steel, AWS D1.1-88 published by the American Welding Society, Miami, FL, USA. Users of this Code, writers of other codes, students and researchers alike will find it an indispensable source of background material in their work with tubular structures.

Inflammation

Designed as Kawasaki's response to the ground-breaking Honda CB750 of 1969, the Kawasaki 900 Super 4 Model Z1, affectionately referred to by many as the 'Z1000', appeared in 1972. It took the motorcycling world by storm and has a strong claim to be the world's first true ultimate superbike. Thirty years on, the (K)Z1000 Z1-R has emerged as one of Kawasaki's most desirable and sought after collectables from the 1970s. This book will help the reader appreciate the ever-evolving Japanese motorcycle styling and the introduction of various technologies as standard equipment, and just how sensational and unique these motorbikes really were.

Bridge Engineering

This comprehensive book explores the role of cytokines in immunotoxicology and human health using a variety of complex methods, from basic research to highly applied therapeutic applications. It includes a basic study of cytokines and details the effects of cytokines on the immune system and in treating cancer. The book serves as both a primer and a starting point for a more detailed investigation of the role these biological regulators play.

Optical Fiber Sensor Technology

KX125 (1982-1991), KX250 (1982-1991), KX500 (1983-2004)

Emerging Energetic Materials: Synthesis, Physicochemical, and Detonation Properties

With more than 200 recipes for pork, beef, lamb, poultry, and game, stunning photos of delicious dishes, and tips on raising sustainable meat and buying from local farmers, "Good Meat" is sure to become the classic cooking resource of the sustainable meat movement.

Industrial Uses of Starch and its Derivatives

The classic, comprehensive guide to the physics of soil The physical behavior of soil under different environmental conditions impacts public safety on every roadway and in every structure; a deep understanding of soil mechanics is therefore an essential component to any engineering education. Soil Mechanics offers in-depth information on the behavior of soil under wet, dry, or transiently wet conditions, with detailed explanations of stress, strain, shear, loading, permeability, flow, improvement, and more. Comprehensive in scope, this book provides accessible coverage of a critical topic, providing the background aspiring engineers will need throughout their careers.

Key Performance Indicators

It is our great pleasure to welcome you all to the 2002 AFSS International Conference on Fuzzy Systems (AFSS 2002) to be held in Calcutta, the great City of Joy. AFSS 2002 is the 7th conference in the series initiated by the Asian Fuzzy Systems Society (AFSS). AFSS 2002 is jointly being organized by the Indian Statistical Institute (ISI) and Jadavpur University (JU). Like previous conferences in this series, we are sure, AFSS 2002 will provide a forum for fruitful interaction and exchange of ideas between the participants from all over the globe. The present conference covers all major facets of soft computing such as fuzzy logic, neural networks, genetic algorithms including both theories and applications. We hope this meeting will be enjoyable academically and otherwise. We are thankful to the members of the International Program Committee and the Area Chairs for extending their support in various forms to make a strong technical program. Each submitted paper was reviewed by at least three referees, and in some cases the revised versions were again checked by the referees. As a result of this tough screening process we could select only about 50% of the submitted papers. We again express our sincere thanks to all referees for doing a great job. We are happy to note that 19 different countries from all over the globe are represented by the authors, thereby making it a truly international conference. We are proud to have a list of distinguished speakers including Profs. Z. Pawlak, J. Bezdek, D. Dubois, and T. Yamakawa.

Wärtsilä Encyclopedia of Ship Technology

"Soil Strength and Slope Stability is the essential text for the critical assessment of natural and man-made slopes. Extensive case studies throughout help illustrate the principles and techniques described, including a new examination of Hurricane Katrina failures, plus examples of soil and slope engineering from around the world. Extraneous theory has been excluded to place the focus squarely on the practical application of slope design and analysis techniques, including information about standards, regulations, formulas, and the use of software in analysis."--pub. desc.

Advances in Soft Computing - AFSS 2002

How to maintain, modify and set-up every component and correct common flaws.

Kawasaki (K)Z1000 & Z1-R

Wind Effects on Structures

Optical Fiber Sensor Technology, Advanced Applications - Bragg Gratings and Distributed Sensors, builds upon the foundations of the subject in the preceding four volumes of this series, concentrating as they do upon both applications and the technology of advanced optical fiber sensors. Previous volumes have covered the fundamentals of the field, devices and systems and chemical and environmental monitoring. This volume deals with a range of highly topical sensor devices and commercial systems, with considerable emphasis upon one of the most important areas, Bragg gratings in fibers, their fabrication and applications in advanced sensor systems and the principles and use of distributed fiber optic sensors. The volume is well illustrated and referenced, pointing to hundreds of key publications accessible in the open literature. It draws upon a group of authors with an international reputation for their work in the area, carefully edited into a coherent and logical text by the editors, based on their considerable experience in the field. This book series will provide an invaluable source for researchers, engineers and advanced students in the field of optical fibers, optoelectronics and measurement and sensing.

Anagram Solver

Anagram Solver is the essential guide to cracking all types of quiz and crossword featuring anagrams. Containing over 200,000 words and phrases, Anagram Solver includes plural noun forms, palindromes, idioms, first names and all parts of

speech. Anagrams are grouped by the number of letters they contain with the letters set out in alphabetical order so that once the letters of an anagram are arranged alphabetically, finding the solution is as easy as locating the word in a dictionary.

Basics of Foundation Design

Despite decades of research into the nature and treatment of stuttering, the causes and underlying mechanisms of it are still not well understood. In this unique and comprehensive overview of the numerous theories and models which seek to understand and explain stuttering, the authors of *Theoretical Issues in Stuttering* provide an invaluable account. Covering an impressive range of topics including past and current theories of stuttering, this edition provides the reader with an updated evaluation of the literature on the subject of stuttering alongside exploring the evolution of new theories. Placing each within the relevant historical context, the authors explore the contribution of theory to both understanding and managing stuttering. *Theoretical Issues in Stuttering* is a critical account of the models and theories which surround the subject of stuttering, aiming to act as a key resource for students of speech-language pathology as well as lecturers, clinicians and researchers within the field.

Soil Strength and Slope Stability

Kawasaki KX125 & KX250 1982-1991, KX500 1983-2004

This title covers the osteopathic approach to patient management for pregnant women (pre and post partum), and for patients presenting with a variety of visceral conditions such as asthma, chronic breathing problems, various gastrointestinal tract disorders such as irritable bowel syndrome, other conditions such as post operative scarring and pain, and many others. It also addresses the improvement of management of general musculo-skeletal problems such as back pain, neck pain and so on, by incorporating visceral and fascial perspectives into those examinations and treatment protocols. Current clinical knowledge, and ethical and medical constraints are discussed throughout. Supported by clear illustrations and clinical case studies this book makes an excellent resource for all practitioners and students of osteopathy.

Developments in Earthquake Geotechnics

“Intelligent systems are those which produce intelligent outputs.” AI researchers have been focusing on developing and employing strong methods that are capable of solving complex real-life problems. The 18th International Conference on

Industrial & Engineering Applications of Artificial Intelligence & Expert Systems (IEA/AIE 2005) held in Bari, Italy presented such work performed by many scientists worldwide. The Program Committee selected long papers from contributions presenting more complete work and posters from those reporting ongoing research. The Committee enforced the rule that only original and unpublished work could be considered for inclusion in these proceedings. The Program Committee selected 116 contributions from the 271 submitted papers which cover the following topics: artificial systems, search engines, intelligent interfaces, knowledge discovery, knowledge-based technologies, natural language processing, machine learning applications, reasoning technologies, uncertainty management, applied data mining, and technologies for knowledge management. The contributions oriented to the technological aspects of AI and the quality of the papers are witness to a research activity clearly aimed at consolidating the theoretical results that have already been achieved. The conference program also included two invited lectures, by Katharina Morik and Roberto Pieraccini.

Many people contributed in different ways to the success of the conference and to this volume. The authors who continue to show their enthusiastic interest in applied intelligence research are a very important part of our success. We highly appreciate the contribution of the members of the Program Committee, as well as others who reviewed all the submitted papers with efficiency and dedication.

Pile Foundations in Engineering Practice

The literature of starch has proliferated in the last ten years at an almost geometric rate and a number of important changes and developments in the technology of starch and its derivatives have taken place which makes it highly desirable to review these in some depth. The immensity of the subject determined the writer to seek the assistance of a number of prominent workers throughout the world. Where older work contains factual information of present value it has been retained, generally in the form of Additional References. These are brief abstracts which will help specialised searchers in a branch of the subject to complete the information given in the text. Inclusion of disjointed information can often lead to the loss of coherence and clarity, and the device of the Additional References, whilst allowing smooth presentation, also allows the inclusion of up-to-the-minute material appearing after the main text has been written. Apart from the immense amount of important practical and theoretical detail required to produce and use starch for many applications in a number of important industries, a thorough knowledge is also required of a number of aspects for the successful buying and selling of starch. This book was written and published contemporaneously with two others entitled Starch Production Technology and Examination and Analysis of Starch and Starch Products. The three books together provide a wide coverage of starch technology and chemistry with the self-contained individual volumes providing precise information for specialist readers.

Design of Pile Foundations

Suspension is probably the most misunderstood aspect of motorcycle performance. This book, by America's premier suspension specialist, makes the art and science of suspension tuning accessible to professional and backyard motorcycle mechanics alike. Based on Paul Thede's wildly popular Race Tech Suspension Seminars, this step-by-step guide shows anyone how to make their bike, or their kid's, handle like a pro's. Thede gives a clear account of the three forces of suspension that you must understand to make accurate assessments of your suspension's condition. He outlines testing procedures that will help you gauge how well you're improving your suspension, along with your riding. And, if you're inclined to perfect your bike's handling, he even explains the black art of chassis geometry. Finally, step-by-step photos of suspension disassembly and assembly help you rebuild your forks and shocks for optimum performance. The book even provides detailed troubleshooting guides for dirt, street, and supermoto--promising a solution to virtually any handling problem.

Construction of Prestressed Concrete Structures

This is a compilation of more than three decades of the philosophies of pioneering British artist and theorist Roy Ascott, on aesthetics, interactivity and the sense of self and community in the telematic world of cyberspace.

Biomedical Engineering Systems and Technologies

Hypertension remains a leading cause of disability and death worldwide. Self-monitoring of blood pressure by patients at home is currently recommended as a valuable tool for the diagnosis and management of hypertension. Unfortunately, in clinical practice, home blood pressure monitoring is often inadequately implemented, mostly due to the use of inaccurate devices and inappropriate methodologies. Thus, the potential of the method to improve the management of hypertension and cardiovascular disease prevention has not yet been exhausted. This volume presents the available evidence on home blood pressure monitoring, discusses its strengths and limitations, and presents strategies for its optimal implementation in clinical practice. Written by distinguished international experts, it offers a complete source of information and guide for practitioners and researchers dealing with the management of hypertension.

The Tragedy of Drakeraft.Com

The "Red Book" presents a background to conventional foundation analysis and design. The text is not intended to replace the much more comprehensive 'standard' textbooks, but rather to support and augment these in a few important areas, supplying methods applicable to practical cases handled daily by practising engineers and providing the basic soil mechanics background to those methods. It concentrates on the static design for stationary foundation conditions. Although

the topic is far from exhaustively treated, it does intend to present most of the basic material needed for a practising engineer involved in routine geotechnical design, as well as provide the tools for an engineering student to approach and solve common geotechnical design problems.

Design of Welded Tubular Connections

This book provides a timely review and summary of the recent advances in state-of-the-art earthquake geotechnics. The earthquake disasters in Japan and New Zealand in 2011 prompted the urgent need for the state-of-the-art earthquake geotechnics to be put into practice for disaster mitigation. By reviewing the developments in earthquake geotechnics over more than half a century, this unique book enables readers to obtain solid grasp of this discipline. It is based on contributions from 18 leading international experts, who met in Kyoto in June 2016 to discuss a range of issues related to the developments of earthquake geotechnics. It comprehensively discusses various areas of earthquake geotechnics, including performance-based seismic design; the evolution of geotechnical seismic response analysis from 1964-2015; countermeasures against liquefaction; solutions for nuclear power plant disasters; the tsunami-caused inundation of the Tokyo metropolitan area; and a series of state-of-the-art effective stress analyses of case histories from the 2011 East Japan Earthquake. The book is of interest to advanced level researchers and practicing engineers in the field of earthquake geotechnics.

Handbook of Hydrocolloids

This book constitutes the proceedings of the 18th International Conference on Computer Information Systems and Industrial Management Applications, CISIM 2019, held in Belgrade, Serbia, in September 2019. The 43 full papers presented together with 3 abstracts of keynotes were carefully reviewed and selected from 70 submissions. The main topics covered by the chapters in this book are biometrics, security systems, multimedia, classification and clustering, industrial management. Besides these, the reader will find interesting papers on computer information systems as applied to wireless networks, computer graphics, and intelligent systems. The papers are organized in the following topical sections: biometrics and pattern recognition applications; computer information systems; industrial management and other applications; machine learning and high performance computing; modelling and optimization; various aspects of computer security.

Computer Information Systems and Industrial Management

Good Meat

Fracture Mechanics is a graduate level text/professional reference that describes the analytical methods used to derive stress and strain functions related to fracture mechanics. The focus of the book will be on modeling and problem solving as tools to be used in interpreting the meaning of a mathematical solution for a particular engineering problem or situation. Once this is accomplished, the reader should be able to think mathematically, foresee metallurgically the significance of microstructural parameters on properties, analyze the mechanical behavior of materials, and recognize realistically how dangerous a crack is in a stressed structure, which may fail catastrophically. This book differs from others in that the subject matter is organized around the modeling and predicating approaches that are used to explain the detrimental effects of crack growth events. Thus, this book will take a more practical approach and make it especially useful as a basic reference for professional engineers.

Theoretical Issues in Stuttering

Motorcross and Off-Road Motorcycle Performance Handbook

Streetbikes

This book constitutes the refereed proceedings of the 9th Asia-Pacific Network Operations and Management Symposium, APNOMS 2007, held in Sapporo, Japan, October 2007. The 48 revised full papers and 30 revised short papers cover management of distributed networks, network configuration and planning, network security management, sensor and ad-hoc networks, network monitoring, routing and traffic engineering, management of wireless networks and security on wireless networks.

Race Tech's Motorcycle Suspension Bible

"Biodegradable Poly (Lactic Acid): Synthesis, Modification, Processing and Applications" describes the preparation, modification, processing, and the research and applications of biodegradable poly (lactic acid), which belong to the biomedical and environment-friendly materials. Highly illustrated, the book introduces systematically the synthesis, physical and chemical modifications, and the latest developments of research and applications of poly (lactic acid) in biomedical materials. The book is intended for researchers and graduate students in the fields of materials science and engineering, polymer science and engineering, biomedicine, chemistry, environmental sciences, textile science and engineering, package materials, and so on. Dr. Jie Ren is a professor at the Institute of Nano and Bio-Polymeric Materials, School of

Material Science and Engineering, Tongji University, Shanghai, China.

Passive and Active Structural Vibration Control in Civil Engineering

Methods and practices for constructing sophisticated prestressed concrete structures. Construction of Prestressed Concrete Structures, Second Edition, provides the engineer or construction contractor with a complete guide to the design and construction of modern, high-quality concrete structures. This highly practicable new edition of Ben C. Gerwick's classic guide is expanded and almost entirely rewritten to reflect the dramatic developments in materials and techniques that have occurred over the past two decades. The first of the book's two sections deals with materials and techniques for prestressed concrete, including the latest recipes for high-strength and durable concrete mixes, new reinforcing materials and their placement patterns, modern prestressing systems, and special techniques such as lightweight concrete and composite construction. The second section covers application to buildings; bridges; pilings; and marine structures, including offshore platforms, floating structures, tanks, and containments. Special subjects such as cracking and corrosion, repair and strengthening of existing structures, and construction in remote areas are presented in the final chapters. For engineers and construction contractors involved in any type of prestressed concrete construction, this book enables the effective implementation of advanced structural concepts and their economical and reliable translation into practice.

Biodegradable Poly (Lactic Acid)

Provides structural engineers with the knowledge and practical tools needed to perform structural designs for wind that incorporate major technological, conceptual, analytical and computational advances achieved in the last two decades. With clear explanations and documentation of the concepts, methods, algorithms, and software available for accounting for wind loads in structural design, it also describes the wind engineer's contributions in sufficient detail that they can be effectively scrutinized by the structural engineer in charge of the design. Wind Effects on Structures: Modern Structural Design for Wind, 4th Edition is organized in four sections. The first covers atmospheric flows, extreme wind speeds, and bluff body aerodynamics. The second examines the design of buildings, and includes chapters on aerodynamic loads; dynamic and effective wind-induced loads; wind effects with specified MRIs; low-rise buildings; tall buildings; and more. The third part is devoted to aeroelastic effects, and covers both fundamentals and applications. The last part considers other structures and special topics such as trussed frameworks; offshore structures; and tornado effects. Offering readers the knowledge and practical tools needed to develop structural designs for wind loadings, this book: Points out significant limitations in the design of buildings based on such techniques as the high-frequency force balance Discusses powerful algorithms, tools, and software needed for the effective design for wind, and provides numerous examples of application Discusses techniques applicable to structures other than buildings, including stacks and suspended-span bridges Features several appendices on

Elements of Probability and Statistics; Peaks-over-Threshold Poisson-Process Procedure for Estimating Peaks; estimates of the WTC Towers' Response to Wind and their shortcomings; and more Wind Effects on Structures: Modern Structural Design for Wind, 4th Edition is an excellent text for structural engineers, wind engineers, and structural engineering students and faculty.

River Ice Jams

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2010, held in Valencia, Spain, in January 2010. The 30 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from a total of 410 submissions in two rounds of reviewing and improvement. The papers cover a wide range of topics and are organized in four general topical sections on healthinf, biodevices, biosignals, and bioinformatics.

Cytokines in Human Health

For the new rider, the returning rider, and the veteran who's looking for more information, this handy book has it all: the necessary facts on street-riding from first to last, clearly and concisely laid out. Author Bill Stermer brings an insider's knowledge to the job, and the result is an expert, user-friendly guide to selecting, equipping, understanding, and using a street motorcycle?with occasional useful detours into such topics as road food and tunes, security and first aid, staying warm and dry, carrying laptops or cameras, and shipping your bike. From a close survey of the types of street motorcycles and different engine configurations, Stermer goes on to discuss features and options, accessories and apparel, mechanical considerations (from power and suspension to detailing and tires), and using a motorcycle in a group or alone or with a passenger, to commute or camp, for rallies or tours.

Telematic Embrace

This is a concise, systematic and complete treatment of the design and construction of pile foundations. Discusses pile behavior under various loadings and types of piles and their installation, including consideration of soil parameters. It provides step-by-step design procedures for piles subject to vertical loading and pullout, lateral, inclined and eccentric loads, or dynamic loads, and for piles in permafrost. Also describes load test procedures and their interpretation and buckling of long, slender piles with and without supported length. The closing chapter presents case histories of prediction and performance of piles and pile groups. Includes numerous solved problems.

Fracture Mechanics

This book summarizes science and technology of a new generation of high-energy and insensitive explosives. The objective is to provide professionals with comprehensive information on the synthesis and the physicochemical and detonation properties of the explosives. Potential technologies applicable for treatment of contaminated wastestreams from manufacturing facilities and environmental matrices are also included. This book provides the reader an insight into the depth and breadth of theoretical and empirical models and experimental techniques currently being developed in the field of energetic materials. It presents the latest research by DoD engineers and scientists, and some of DoD's academic and industrial researcher partners. The topics explored and the simulations developed or modified for the purposes of energetics may find application in other closely related fields, such as the pharmaceutical industry. One of the key features of the book is the treatment of wastewaters generated during manufacturing of these energetic materials.

Innovations in Applied Artificial Intelligence

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