
Stability Of Structures By Ashwini Kumar

Advanced Computing, Networking and Security

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Introduction To Design And Analysis Of Algorithms, 2/E

International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers

Synthesis, Structures, Properties, Processing, and Applications

ICICCS 2020

Proceedings of an International Conference on Advances in Engineering Structures, Mechanics & Construction, held in Waterloo, Ontario, Canada, May 14-17, 2006

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N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis

JOSEPH RILEY

Advanced Computing, Networking and Security PHI Learning Pvt. Ltd.

N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis features all catalytic reactions enabled by N-heterocyclic carbenes (NHCs), either directly as organocatalysts or as ligands for transition metal catalysts. An explosion in the use of NHCs has been reported in the literature during the past seven years making this comprehensive overview highly apropos. The book begins with an introductory overview of NHCs which could have been subtitled all you need to know about NHCs. The main body of the book is dedicated to applications of NHCs in catalysis. In addition to the success stories of NHCs in metathesis, NHCs in cross coupling and more recently NHCs in organocatalysis, all other less publicized areas are also covered. As the success of NHCs is generally attributed to their potential to stabilize metal centres, the inclusion of a chapter on the decomposition of NHC catalysts is pertinent. The book closes with a chapter describing the applications of NHCs in industrial processes, which is the first coverage of its kind, and brings a unique industrial context to this book. Included in this book: Historical aspects of NHCs Synthetic pathways to NHC precursors, free NHCs and complexes Methods of characterisation of NHCs and related complexes Electronic properties of NHCs Steric properties of NHCs and models for their description NHCs for metathesis and cross-coupling reactions NHCs as organocatalysts NHC Transition-Metal mediated oxidations, additions to multiple bonds, polymerisation and oligomerisation, cyclisations, direct arylations, reactions involving CO, C-F and C-H bond activation, ... Decomposition of NHC-containing catalysts Industrial applications involving NHC-containing catalysts N-Heterocyclic Carbenes in Transition Metal Catalysis and Organocatalysis provides a fresh view of NHCs since most contributors are young emerging researchers in the field of homogeneous catalysis using NHCs. This group of contributors is complemented by highly established academic researchers and an industrialist. This book is comprehensive, from the basic features of NHCs to the latest advances, hence it is suitable for both the novice and the expert.

Succeed in Design by Knowing Your Clients and What They Really Need John Wiley & Sons

This volume contains a selection of papers presented at the 7th Nirma University International Conference on Engineering 'NUICONE 2019'. This conference followed the successful organization of four national conferences and six international conferences in previous years. The main theme of the conference was "Technologies for Sustainable Development", which is in line with the "SUSTAINABLE DEVELOPMENT GOAL" established by the United Nations. The conference was organized with many inter-disciplinary technical themes encompassing a broad range of disciplines and enabling researchers, academicians and practitioners to choose between ideas and themes. Besides, NUICONE-2019 has also presented an exciting new set of events to engage practicing engineers, technologists and technopreneurs from industry through special knowledge sharing sessions involving applied technical papers based on case-study applications, white-papers, panel discussions, innovations and technology products. This proceedings will definitely provide a platform

to proliferate new findings among researchers. Advances in Transportation Engineering Emerging Trends in Water Resources and Environmental Engineering Construction Technology and Management Concrete and Structural Engineering Futuristic Power System Control of Power Electronics Converters, Drives and E-mobility Advanced Electrical Machines and Smart Apparatus Chemical Process Development and Design Technologies and Green Environment Sustainable Manufacturing Processes Design and Analysis of Machine and Mechanism Energy Conservation and Management Advances in Networking Technologies Machine Intelligence / Computational Intelligence Autonomic Computing Control and Automation Electronic Communications Electronics Circuits and System Design Signal Processing

Introduction To Design And Analysis Of Algorithms, 2/E Springer Science & Business Media

Organic Crystal Engineering provides reviews of topics in organic crystal engineering that will be of interest to all researchers in molecular solid-state chemistry. Specialist reviews written by internationally recognized researchers, drawn from both academia and industry, cover topics including crystal structure prediction features, polymorphism, reactions in the solid-state, designing new arrays and delineating prominent intermolecular forces for important organic molecules.

International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers Springer

Considering the high level of our knowledge concerning covalent bond formation in the organic chemistry of molecules, our understanding of the principles involved in organic solid design is almost in its infancy. While chemists today are able to synthesize organic molecules of very high complexity using sophisticated methods of preparation, they lack general approaches enabling them to reliably predict organic crystalline or solid structures from molecular descriptors - no matter how simple they are. On the other hand, nearly all the organic matter surrounding us is not in the single-molecule state but aggregated and condensed to form liquid or solid molecular assemblages and structural arrays giving rise to the appearances and properties of organic compounds we usually observe. Obviously, the electrical, optical or magnetic properties of solid organic materials that are important requirements for future technologies and high-tech applications, as well as the stability and solubility behavior of a medicament depend on the structure of the molecule and the intramolecular forces, but even more decisively on the intermolecular forces, i. e. the packing structure of the molecules to which a general approach is lacking. This situation concerned Maddox some years ago to such a degree that he described it as "one of the continuing scandals in the physical sciences" [see (1998) Nature 335:201; see also Ball, P. (1996) Nature 381:648]. The problem of predicting organic solid and crystal structures is very dif- cult.

Synthesis, Structures, Properties, Processing, and Applications World Scientific

This detailed introduction to transportation engineering is designed to serve as a comprehensive text for under-graduate as well as first-year master's students in civil engineering. In order to keep the treatment focused, the emphasis is on roadways (highways) based transportation systems, from the perspective of Indian conditions.

ICICCS 2020 World Scientific

This book constitutes the refereed proceedings of the 32nd International Conference on Advanced Information Systems Engineering, CAiSE 2020, held in Grenoble, France, in June 2020.* The 33 full papers presented in this volume were carefully reviewed and selected from 185 submissions. The book also contains one invited talk in full paper length. The papers were organized in topical sections named: distributed applications; AI and big data in IS; process mining and analysis; requirements and modeling; and information systems engineering. Abstracts on the CAiSE 2020 tutorials can be found in the back matter of the volume. *The conference was held virtually due to the COVID-19 pandemic.

Proceedings of an International Conference on Advances in Engineering Structures, Mechanics & Construction, held in Waterloo, Ontario, Canada, May 14-17, 2006 CRC Press

This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

Diabetes John Wiley & Sons

Indexes materials appearing in the Society's Journals, Transactions, Manuals and reports, Special publications, and Civil engineering.

Handbook of Pharmaceutical Salts Properties, Selection, and Use Woodhead Publishing

INTERNET OF MEDICAL THINGS (IoMT) Providing an essential addition to the reference material available in the field of IoMT, this timely publication covers a range of applied research on healthcare, biomedical data mining, and the security and privacy of health records. With their ability to collect, analyze and transmit health data, IoMT tools are rapidly changing healthcare delivery. For patients and clinicians, these applications are playing a central part in tracking and preventing chronic illnesses — and they are poised to evolve the future of care. In this book, the authors explore the potential applications of a wave of sensor-based tools—including wearables and stand-alone devices for remote patient monitoring—and the marriage of internet-connected medical devices with patient information that ultimately sets the IoMT ecosystem apart. This book demonstrates the connectivity between medical devices and sensors is streamlining clinical workflow management and leading to an overall improvement in patient care, both inside care facilities and in remote locations.

ASCE Combined Index Woodhead Publishing

In the Pacific Northwest, the Survivalist Party is formed, a political party dedicated to sustainable living. Bolinas resident Lou Swift discovers a new way to tap solar energy, but utility executives fight against further development of her invention.

Design of Organic Solids Pearson Education India

Plant Signaling Molecule: Role and Regulation under Stressful Environments explores tolerance mechanisms mediated by signaling molecules in plants for achieving sustainability under changing environmental conditions. Including a wide range of potential molecules, from primary to secondary metabolites, the book presents the status and future prospects of the role and regulation of signaling molecules at physiological, biochemical, molecular and structural level under abiotic stress tolerance. This book is designed to enhance the mechanistic understanding of signaling molecules and will be an important resource for plant biologists in developing stress tolerant crops to achieve sustainability under changing environmental conditions. Focuses on plant biology under stress conditions Provides a compendium of knowledge related to plant adaptation, physiology, biochemistry and molecular responses Identifies treatments that enhance plant tolerance to abiotic stresses Illustrates specific physiological pathways that are considered key points for plant adaptation or tolerance to abiotic stresses

International Conference, ADCONS 2011, Surathkal, India, December 16-18, 2011, Revised Selected Papers Sterling Publications

This invaluable volume consists of five articles covering a wide range of topics in coastal oceanographic engineering. The reader can find an article discussing the modern bubble measurement techniques applied to field studies of bubble dynamics in coastal shallow water. A comprehensive review paper on nonlinear modulation of water waves provides readers with a new perspective on nonlinear processes in the coastal and ocean wave environment. For those who are interested in wave modeling, there are two review articles discussing various wave models, which can be used to study wave-structure interactions and harbor oscillations. Finally, readers who are interested in the subject of stratified flows can find an article presenting the detailed laboratory observations of lock-exchange flows. Contents: Nonlinear Modulation of Water Waves (M Dingemans & A Otta) Bubble Measurement Techniques and Bubble Dynamics in Coastal Shallow Water (M-Y Su & J C Wesson) Simulation of Waves in Harbors Using Two-Dimensional Elliptic Equation Models (V Panchang & Z Demirbilek) Recent Advances in the Modeling of Wave and Permeable Structure Interaction (I J Losada) Descriptive Hydrodynamics of Lock-Exchange Flows (H Yeh & K Wada) Readership: Researchers, academics and graduate students in ocean engineering and mathematical modeling. Keywords: Water Waves; Nonlinear Propagation; Modulation of Water Waves; Modulation Over Varying Depth; Water Depth; Schrodinger Equations; Higher-Order Modulation; Side-Band Instability; Mathematical Modeling; Elliptic Equations; Numerical Models; Ports and Harbors; Navigation; Coastal and Ocean Engineering Projects

Poly(lactic acid) Sterling Publishers Pvt. Ltd

This book constitutes revised selected papers from the International Conference on Advanced Computing, Networking and Security, ADCONS 2011, held in Surathkal, India, in December 2011. The 73 papers included in this book were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on distributed computing, image processing, pattern recognition, applied algorithms, wireless networking, sensor networks, network infrastructure, cryptography, Web security, and application security.

Plant Signaling Molecules Cornell University Press

Diabetes: Epidemiology, Pathophysiology and Clinical Management aims to be the one-stop diabetes

book for researchers, scientists and clinicians. It details the epidemiology, causes, molecular mechanisms, molecular markers, available drugs, experimental drugs, treatment modalities, and dietary and lifestyle approaches related to diabetes. It focuses on various molecular aspects of diabetes, and its related co-morbidities. Apart from the drug-based treatment approach based on international guidelines, this book also describes various surgical treatments available for cases of uncontrolled symptomatic diabetes. It also lays emphasis on the future possibilities of different approaches for diabetes management. Key Features Includes treatment guidelines and approaches to diabetes provided by major global diabetes associations Provides a thorough and comprehensive assimilation of detailed information and updates in the field of diabetes, helpful for researchers, scientists and clinicians Contains a chapter on anti-diabetic drugs, that covers both the commercially approved drugs as well as those that are in various phases of experimental, pre-clinical, and clinical trials

A Designer's Research Manual Wiley

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.

Polysaccharide Carriers for Drug Delivery Cambridge University Press

Includes statistical data.

Healthcare Transformation Elsevier

This book describes the synthesis, properties, and processing methods of poly(lactic acid) (PLA), an important family of degradable plastics. As the need for environmentally-friendly packaging materials increases, consumers and companies are in search for new materials that are largely produced from renewable resources, and are recyclable. To that end, an overall theme of the book is the biodegradability, recycling, and sustainability benefits of PLA. The chapters, from a base of international expert contributors, describe specific processing methods, spectroscopy techniques for PLA analysis, and applications in medical items, packaging, and environmental use.

Wake of the Phoenix Springer Nature

This comprehensive up-to-date guide and information source is an instructive companion for all

scientists involved in research and development of drugs and, in particular, of pharmaceutical dosage forms. The editors have taken care to address every conceivable aspect of the preparation of pharmaceutical salts and present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts. Altogether, the contributions reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products.

Coastal Engineering 2002 Heyday

This book presents select proceedings of the International Conference on Advanced Lightweight Materials and Structures (ICALMS) 2020, and discusses the triad of processing, structure, and various properties of lightweight materials. It provides a well-balanced insight into materials science and mechanics of both synthetic and natural composites. The book includes topics such as nano composites for lightweight structures, impact and failure of structures, biomechanics and biomedical engineering, nanotechnology and micro-engineering, tool design and manufacture for producing lightweight components, joining techniques for lightweight structures for similar and dissimilar materials, design for manufacturing, reliability and safety, robotics, automation and control, fatigue and fracture mechanics, and friction stir welding in lightweight sandwich structures. The book also discusses latest research in composite materials and their applications in the field of aerospace, construction, wind energy, automotive, electronics and so on. Given the range of topics covered, this book can be a useful resource for beginners, researchers and professionals interested in the wide ranging applications of lightweight structures.

The New Handbook of Political Sociology World Scientific

Polysaccharide Nanoparticles: Preparation and Biomedical Applications provides detailed information on polysaccharides nanoparticles in terms of their synthesis and applications. Naturally occurring polysaccharides are widely used as food materials, particularly in Asia. Different kinds of polysaccharide materials are available from nature with various resources such as crustaceans and algae. The exploration and exploitation of polysaccharides nanoparticles from natural resource is at the heart of this book, which also explores the synthesis, preparation and applications of polysaccharides nanoparticles for tissue engineering and food applications. This is an important reference for materials scientists and bioengineers who are looking to gain a greater understanding on how polysaccharides nanoparticles are being used for a variety of biomedical applications. Explains the major synthesis and preparation methods of polysaccharide-based nanoparticles Demonstrates how polysaccharides nanoparticles are being used for a range of biomedical applications, including tissue engineering, drug delivery and biosensors Assesses the major challenges and risks of using polysaccharides nanoparticles safely and effectively

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