Dr Vijay Kumar Prajapati Assiatnt Professor Department Of

Thank you categorically much for downloading **Dr Vijay Kumar Prajapati Assiatnt Professor Department Of** .Most likely you have knowledge that, people have look numerous time for their favorite books once this Dr Vijay Kumar Prajapati Assiatnt Professor Department Of , but stop taking place in harmful downloads.

Rather than enjoying a good book gone a cup of coffee in the afternoon, instead they juggled later some harmful virus inside their computer. **Dr Vijay Kumar Prajapati Assiatnt Professor Department Of** is to hand in our digital library an online access to it is set as public in view of that you can download it instantly. Our digital library saves in compound countries, allowing you to acquire the most less latency era to download any of our books similar to this one. Merely said, the Dr Vijay Kumar Prajapati Assiatnt Professor Department Of is universally compatible later any devices to read.

Positive Schooling and Child Development - Sibnath Deb 2018-07-20

This volume discusses the importance of positive schooling in producing responsible and

potentially productive adults. Students are generally more motivated to do well and to realize their full potential in schools that have a positive schooling climate, where they feel safe, included and supported. Nevertheless, the reality in today's schools is very different. This volume discusses the major challenges faced by children and adolescents in schools, including problems with curricula, safety issues, lack of inclusive policies, non-availability of teachers, ineffective teaching, insensitivity towards students' issues, improper evaluation methods, harmful disciplinary measures, and so on. Experts in child psychology and education discuss these issues at length in this volume and offer viable solutions for policymakers, school administrators, teachers and parents to make suitable changes and create a positive atmosphere in educational institutions. This volume further discusses the role of various stakeholders---school principals, teachers, counsellors and psychologists---in addressing these challenges. In addition, it raises other, emerging issues which have not been covered in previous volumes on this topic and offers evidence-based suggestions to address them. The intended readership of the volume is researchers and students of psychology, education, sociology, social work and public health, and school teachers, administrators and teacher-trainers.

Energy Storage in Energy Markets - Behnam Mohammadi-Ivatloo 2021-04-30

Energy Storage in Energy Markets reviews the modeling, design, analysis, optimization and impact of energy storage systems in energy markets in a way that is ideal for an audience of researchers and practitioners. The book provides deep insights on potential benefits and revenues, economic evaluation, investment challenges, risk analysis, technical requirements, and the impacts of energy storage integration. Heavily referenced and easily accessible to policymakers, developers,

engineer, researchers and students alike, this comprehensive resource aims to fill the gap in the role of energy storage in pool/local energy/ancillary service markets and other multi-market commerce. Chapters elaborate on energy market fundamentals, operations, energy storage fundamentals, components, and the role and impact of storage systems on energy systems from different aspects, such as environmental, technical and economics, the role of storage devices in uncertainty handling in energy systems and their contributions in resiliency and reliability improvement. Provides integrated techno-economic analysis of energy storage systems and the energy markets Reviews impacts of electric vehicles as moving energy storage and loads on the electricity market Analyzes the role and impact of energy storage systems in the energy, ancillary, reserve and regulatory multi-market business Applies advanced methods to the economic integration of large-scale energy storage systems Develops an evaluation framework for energy market storage systems

Polymer Gels - Vijay Kumar Thakur 2018-02-12

This book summarizes the recent advances in the science and engineering of polymer-gel-based materials in different fields. It also discusses the extensive research developments for the next generation of smart materials. It takes an in-depth look at the current perspectives and market opportunities while pointing to new possibilities and applications. The book addresses important topics such as stimuli responsive polymeric nanoparticles for cancer therapy; polymer gel containing metallic materials; chemotherapeutic applications in oncology; conducting polymer-based gels and their applications in biological sensors; imprinted polymeric gels for pharmaceutical and biomedical purposes; applications of biopolymeric gels in the agricultural sector; application of polymer gels and their nanocomposites in electrochemistry; smart

polyelectrolyte gels as a platform for biomedical applications; agro-based polymer gels and their application in purification of industrial water wastes; polymer gel composites for bio-applications. It will be of interest to researchers working in both industry and academia.

System Vaccinology - Vijay Kumar Prajapati 2022-08-15

Emergence of new and deadly infectious diseases is significantly deteriorating the human health. Development of vaccine by the scientist has become an important weapon to control the spread of infectious diseases as well as to improve the life expectancy at global level in 20th-21st Century. This book will provide the in-depth knowledge of vaccine history, and development of new strategies to design efficacious and safe vaccine molecule. This book will cover the development of system vaccinology and their applications revolutionize the vaccine discovery. This will provide a resource for the basic and clinical researcher working to human life expectancy by their vaccine experiments and clinical trials. My purpose to write this book to educate the students and researchers with modern development in the field of vaccinology and empowering the researcher with new tools and methodology for developing potential and immunogenic vaccines. This book will be helpful to solve the curiosity of science and medical background students related with vaccinology and will be helpful to devise a new vaccine molecule to control the spread of new and emerging pathogens. Systems biology is a rapidly expanding research discipline aiming to integrate multifaceted datasets generated using state-of-the-art high- throughput technologies such as arrays and next-generation sequencing. Combined with sophisticated computational analysis we are able to interrogate host responses to infections and vaccination on a systems level, thus generating important new hypotheses and discovering unknown

associations between immunological parameters. Provides in-depth knowledge of vaccine history Covers the development of system vaccinology and their applications revolutionize the vaccine discovery Gives insights to the development of new strategies to design efficacious and safe vaccine molecule Provides a resource for the basic and clinical researcher working to human life expectancy by their vaccine experiments and clinical trials Highlights the importance of differential miRNA expression, microbiome after vaccination for human health Serves the need of students and researcher for applying computational tools and quick designing of potential molecule which may be proposed for vaccine trial Take the decisions to perform the kind of experiments for assessment of vaccine immunogenicity Aims to understand disease pathogenesis and host responses to infection and vaccination Offers a seamless continuum of scientific discovery and vaccine invention

Palladacycles - Anant Kapdi 2019-06-14
Palladacycles: Catalysis and Beyond provides an overview of recent research in palladacycles in catalysis for cross-coupling and similar reactions. In the quest for developing highly efficient and robust palladium-based catalysts for C-C bond formation via cross-coupling reactions, palladacycles have played a significant role. In recent years, they have found a wide variety of applications, ranging from catalysts for cross-coupling and related reactions, to their more recent application as anticancer agents. This book explores early examples of the use of palladacyclic complexes in catalysis employing azobenzene and hydrazobenzene as coordinating ligands. Its applications in processes such as selective reduction of alkenes, alkynes, or nitroalkanes are also covered. Palladacycles: Catalysis and Beyond reveals the tremendous advances that have taken place in the potential applications of palladacycles as versatile catalysts in academia

and industry. It is a valuable resource for synthetic chemists, organometallic chemists, and chemical biologists. Reviews the importance and various applications of palladacycles in academic research and industry, including industrial scale applications Includes the impact of palladacycles on coupling reactions and potential applications as anticancer agents Features coverage of nano and colloidal catalysis via palladacyclic degradation

Proceedings of International Conference on Intelligent Manufacturing and Automation - Hari Vasudevan 2018-11-04

This book presents the outcomes of the International Conference on Intelligent Manufacturing and Automation (ICIMA 2018) organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering, Mumbai, and the Indian Society of Manufacturing Engineers. It includes original research and the latest advances in the field, focusing on automation, mechatronics and robotics; CAD/CAM/CAE/CIM/FMS in manufacturing; product design and development; DFM/DFA/FMEA; MEMS and Nanotechnology; rapid prototyping; computational techniques; industrial engineering; manufacturing process management; modelling and optimization techniques; CRM, MRP and ERP; green, lean, agile and sustainable manufacturing; logistics and supply chain management; quality assurance and environment protection; advanced material processing and characterization; and composite and smart materials.

Probiotic Research in Therapeutics - Parneet Kaur Deol 2020-11-13

The volume sheds new light on role of gut dysbiosis in cancer and immunological diseases and their clinical manifestations. Contributions in the volume discuss about the gut microbiota as a therapeutic target and the role of probiotics

in its management. The volume explores application of probiotics in the treatment of various cancers viz. colorectal, gastric, lung, and breast cancer and immunological diseases. The volume comprises of chapters from expert contributors organized into various important themes which include, introduction, relationship between gut microbiota and disease condition, mechanisms involved, clinical and in vivo status, conclusion and future directions. This is a highly informative and carefully presented book, providing recent and innovative insight for scholars and researchers with an interest in probiotics and its applications in cancer and immunological diseases.

Advanced Biopolymeric Systems for Drug Delivery - Amit Kumar Nayak 2020-07-11

This book discusses the recent innovations in the development of various advanced biopolymeric systems, including gels, in situ gels, hydrogels, interpenetrating polymer networks (IPNs), polyelectrolyte complexes (PECs), graft co-polymers, stimuli-responsive polymers, polymeric nanoparticles, nanocomposites, polymeric micelles, dendrimers, liposomes and scaffolds. It also examines their applications in drug delivery.

Intelligent Manufacturing and Energy Sustainability - A.N.R. Reddy 2020-02-14

This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability.

Handmade in India - Aditi Ranjan 2009-10-20

The Indian way of life celebrates products made with the help of simple, indigenous tools by craftspeople from a strong fabric of tradition, aesthetic and artistry. The range of Indian

handicrafts is as rich and varied as the country's cultural diversity. A tour of India's craft repertoire, Handmade in India is a guide to the arts that reflects the diversity of the country, its culture and the ways it nurtures creativity and ingenuity. This encyclopedic reference captures the traditions that enrich the day-to-day lives of Indian people, as well as provide a livelihood for generations of craftspeople. Handmade in India explores all aspects of handicrafts-historical, social and cultural influences on crafts; design and craft processes; traditional and new markets; products and tools-revealing a remarkable wealth of knowledge. Handmade in India is the result of extensive field work and research. The authors map out regional craft clusters identified across the country according to the prevailing craft-work patterns. It is closely woven with images to reveal the wide array of crafts in India. Some of these are well known, like the woodwork of Kashmir, blue pottery of Jaipur, embroidery of Lucknow and the bamboo craft of Assam. Other, lesser-known crafts, such as stitched boots from Ladakh and tinsel printing in Ahmedabad, are also described in striking detail. The close study of various crafts enables the reader to discern subtle, sometimes unusual, differences in the same craft practiced by distinct regions or communities-such as tie-resist dyeing, which is called bandhani in Gujarat and Madhya Pradesh, but bandhej in Rajasthan. The first of its kind ever attempted, this beautifully illustrated guide will be a tremendous resource for product and textile designers, artists, architects, interior designers, collectors, development professionals and connoisseurs alike. Handmade in India will also be a useful reference for libraries interested in Indian crafts and culture, and organizations that work with the crafts sector in India.

Frontiers in Protein Structure, Function, and Dynamics - Dev Bukhsh Singh 2021-07-03 This book discusses a broad range of basic and advanced topics in the field of protein structure,

function, folding, flexibility, and dynamics. Starting with a basic introduction to protein purification, estimation, storage, and its effect on the protein structure, function, and dynamics, it also discusses various experimental and computational structure determination approaches; the importance of molecular interactions and water in protein stability, folding and dynamics; kinetic and thermodynamic parameters associated with protein-ligand binding; single molecule techniques and their applications in studying protein folding and aggregation; protein quality control; the role of amino acid sequence in protein aggregation; muscarinic acetylcholine receptors, antimuscarinic drugs, and their clinical significances. Further, the book explains the current understanding on the therapeutic importance of the enzyme dopamine beta hydroxylase; structural dynamics and motions in molecular motors; role of cathepsins in controlling degradation of extracellular matrix during disease states; and the important structure-function relationship of iron-binding proteins, ferritins. Overall, the book is an important guide and a comprehensive resource for understanding protein structure, function, dynamics, and interaction.

Advances in VLSI, Communication, and Signal Processing - David Harvey 2020-10-14

This book comprises select peer-reviewed papers from the International Conference on VLSI, Communication and Signal processing (VCAS) 2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be

useful to students, researchers and professionals working in the electronics and communication domain.

Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems - Vijay Nath 2020-08-14

The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development.

Directory - The Institution of Engineers (India). - Institution of Engineers (India) 1972

Drug Design: Principles and Applications - Abhinav Grover 2017-08-09

This book offers an in-depth discussion of the latest strategies in the field of drug design and their applications in various disorders, in order to encourage readers to undertake their own projects.It also includes the contemporary application of drug-designing methodologies to inspire others to further expand the utility of this field in other diseases.It is intended for advanced undergraduate and graduate students, postdocs, researchers, lecturers and professors in bioinformatics, computational biology, medicine, pharmaceutics and other related fields.

Bioresource and Stress Management - Ratikanta Maiti 2016-07-20

This book is a compilation of recent global measures to conserve bio-resources and manage biotic and abiotic stresses. It highlights emerging issues related to agriculture, abiotic and biotic stress factors, ethnic knowledge, climate change and global warming, as well as natural resources and their sustainable management. It also focuses on the consolidated efforts of scientists and academics engaged in addressing a number of issues related to resource management and combating stresses in order to protect the Earth. Crop production and productivity have been significantly improved, however, there have been no corresponding practical advances in sustainable agriculture.This book offers a wide range of affordable approaches to managing bio-resources with a focus on sustainability. Lastly, it describes research highlights and future areas of research.

Antimicrobial Resistance - Pranav Kumar Prabhakar 2020

This book contains comprehensive and up-to-date reviews of multidrug resistance mechanisms. The book intends to provide a state-of-the-art collection of reviews and methods for both basic and clinician investigators who are interested in multidrug resistance mechanisms and reversal strategies. We believe that this information will be of value to clinicians, epidemiologists, microbiologists, virologists, parasitologists, public health authorities, medical students, and fellows in training. Each chapter begins with a summary of the concepts, so that those not actively working in the field can readily gain an overall picture of what follows. The book contains 13 chapters which deal with the antibiotic resistance mechanism in bacteria, fungus, virus and also methicillin resistance S.aureus. The book also explains the futuristic strategy to deal with the antibiotic resistance. We have endeavoured to

provide this information in a style that is accessible to the broad community of persons who are concerned with the impact of drug resistance in our clinics and across broader global communities.

Direct Nose-to-Brain Drug Delivery - Chandrakantsing Pardeshi 2021-06-16

Direct Nose-to-Brain Drug Delivery provides the reader with precise knowledge about the strategies and approaches for enhanced nose-to-brain drug delivery. It highlights the development of novel nanocarrier-based drug delivery systems for targeted drug delivery to the brain microenvironments with a focus on the technological advances in the development of the novel drug delivery devices for intranasal administration, including special emphasis on brain targeting through nose. This book explores the various quantification parameters to assess the brain targeting efficiency following intranasal administration and includes an overview on the toxicity aspects of the various materials used to develop the direct nose-to-brain drug delivery vehicles and of the regulatory aspects including patents and current clinical status of the potential neurotherapeutics for the effective management of neuro-ailments. Technological advances in new drug delivery systems with diverse applications in pharmaceutical, biomedical, biomaterials, and biotechnological fields are also explained. This book is a crucial source that will assist the veteran scientists, industrial technologists, and clinical research professionals to develop new drug delivery systems and novel drug administration devices for the treatment of neuro-ailments. Explains the targeting approaches for enhanced brain targeting following intranasal drug administration Explores the various nanocarriers developed to date for neurotherapeutic delivery via nose-to-brain Discusses pharmaceutical and biomedical applications after nose-to-brain delivery of therapeutic pharmaceuticals and biologicals

Colon Cancer Diagnosis and Therapy - Naveen Kumar Vishvakarma 2021-06-04
Colorectal cancer (CRC) is a major global health challenge as the third leading cause for cancer related mortalities worldwide. Despite advances in therapeutic strategies, the five-year survival rate for CRC patients has remained the same over time due to the fact that patients are often diagnosed in advanced metastatic stages. Drug resistance is another common reason for poor prognosis. Researchers are now developing advanced therapeutic strategies such as immunotherapy, targeted therapy, and combination nanotechnology for drug delivery. In addition, the identification of new biomarkers will potentiate early stage diagnosis. This book is the second of three volumes on recent developments in colorectal diagnosis and therapy. Each volume can be read on its own, or together. Each volume focuses on different novel therapeutic advances, biomarkers, and identifies therapeutic targets for treatment. Written by leading international experts in the field, coverage addresses the role of diet habits and lifestyle in reducing gastrointestinal disorders and incidence of CRC. Chapters discuss current and future diagnostic and therapeutic options for colorectal cancer patients, focusing on immunotherapeutics, nanomedicine, biomarkers, and dietary factors for the effective management of colon cancer.

Who's Who in Science and Engineering 2008-2009 - Marquis Who's Who, Inc. 2007-12

Advanced Computational Methods in Mechanical and Materials Engineering - Ashwani Kumar 2021-11-24
This book provides in-depth knowledge to solve engineering, geometrical, mathematical, and scientific problems with the help of advanced computational methods with a focus on mechanical and materials engineering. Divided into three subsections covering design and fluids, thermal engineering and materials

engineering, each chapter includes exhaustive literature review along with thorough analysis and future research scope. Major topics covered pertains to computational fluid dynamics, mechanical performance, design, and fabrication including wide range of applications in industries as automotive, aviation, electronics, nuclear and so forth. Covers computational methods in design and fluid dynamics with a focus on computational fluid dynamics Explains advanced material applications and manufacturing in labs using novel alloys and introduces properties in material Discusses fabrication of graphene reinforced magnesium metal matrix for orthopedic applications Illustrates simulation and optimization gear transmission, heat sink and heat exchangers application Provides unique problem-solution approach including solutions, methodology, experimental setup, and results validation This book is aimed at researchers, graduate students in mechanical engineering, computer fluid dynamics,fluid mechanics, computer modeling, machine parts, and mechatronics.

Proceedings of International Conference on Intelligent Manufacturing and Automation - Hari Vasudevan 2020-06-30

This book gathers selected papers presented at the Second International Conference on Intelligent Manufacturing and Automation (ICIMA 2020), which was jointly organized by the Departments of Mechanical Engineering and Production Engineering at Dwarkadas J. Sanghvi College of Engineering (DJSCE), Mumbai, and by the Indian Society of Manufacturing Engineers (ISME). Covering a range of topics in intelligent manufacturing, automation, advanced materials and design, it focuses on the latest advances in e.g. CAD/CAM/CAE/CIM/FMS in manufacturing, artificial intelligence in manufacturing, IoT in manufacturing, product design & development, DFM/DFA/FMEA, MEMS & nanotechnology, rapid prototyping, computational techniques, nano- & micro-machining, sustainable

manufacturing, industrial engineering, manufacturing process management, modelling & optimization techniques, CRM, MRP & ERP, green, lean & agile manufacturing, logistics & supply chain management, quality assurance & environmental protection, advanced material processing & characterization of composite & smart materials. The book is intended as a reference guide for future researchers, and as a valuable resource for students in graduate and doctoral programmes.

Acute Respiratory Infections - Wei Shen Lim 2012-08-02

This pocketbook is a concise companion for health care professionals who manage patients with acute lung infections.

Proceedings of Integrated Intelligence Enable Networks and Computing - Krishan Kant Singh Mer 2021-04-23

This book presents best selected research papers presented at the First International Conference on Integrated Intelligence Enable Networks and Computing (IIENC 2020), held from May 25 to May 27, 2020, at the Institute of Technology, Gopeshwar, India (Government Institute of Uttarakhand Government and affiliated to Uttarakhand Technical University). The book includes papers in the field of intelligent computing. The book covers the areas of machine learning and robotics, signal processing and Internet of things, big data and renewable energy sources.

Advanced Numerical Simulations in Mechanical Engineering - Kumar, Ashwani 2017-12-01

Recent developments in information processing systems have driven the advancement of numerical simulations in engineering. New models and simulations enable better solutions for problem-solving and overall process improvement. Advanced Numerical Simulations in Mechanical Engineering is a pivotal reference source for the latest research findings on advanced modelling and simulation method

adopted in mechanical and mechatronics engineering. Featuring extensive coverage on relevant areas such as fuzzy logic controllers, finite element analysis, and analytical models, this publication is an ideal resource for students, professional engineers, and researchers interested in the application of numerical simulations in mechanical engineering.

Emerging Trends in Chemical Sciences - Ponnadurai Ramasami 2017-10-10

Thirty carefully selected, peer-reviewed contributions from the International Conference on Pure and Applied Chemistry (ICPAC 2016) are featured in this edited book of proceedings. ICPAC 2016, a biennial meeting, was held in Mauritius in July 2016. The chapters in this book reflect a wide range of fundamental and applied research in the chemical sciences and interdisciplinary subjects. This is a unique collection of full research papers as well as reviews.

Control of Iodine in the Nuclear Industry - International Atomic Energy Agency 1973

Biodiversity in the Global South - Institut de recherche pour le développement (France) 2020

Nanotechnology Based Approaches for Tuberculosis Treatment - Prashant Kesharwani 2020-06-10

Nanotechnology Based Approaches for Tuberculosis Treatment discusses multiple nanotechnology-based approaches that may help overcome persisting limitations of conventional and traditional treatments. The book summarizes the types of nano drugs, their synthesis, formulation, characterization and applications, along with the most important administration routes. It also explores recent advances and achievements regarding therapeutic efficacy and provides possible future applications in this field. It will be a useful resource for investigators, pharmaceutical researchers, innovators and scientists working

on technology advancements in the areas of targeted therapies, nano scale imaging systems, and diagnostic modalities in tuberculosis. Addresses the gap between nanomedicine late discovery and early development of tuberculosis therapeutics Explores tuberculosis nanomedicine standardization and characterization with newly developed treatment, diagnostic and treatment monitoring modalities Covers the field thoroughly, from the pathogenesis of tuberculosis and multi-drug resistant mycobacterium tuberculosis, to treatment approaches using nanotechnology and different nanocarriers

Solar Energy Conversion and Storage - Suresh C. Ameta 2015-11-05

Solar Energy Conversion and Storage: Photochemical Modes showcases the latest advances in solar cell technology while offering valuable insight into the future of solar energy conversion and storage. Focusing on photochemical methods of converting and/or storing light energy in the form of electrical or chemical energy, the book: Describes various types of solar cells, including photovoltaic cells, photogalvanic cells, photoelectrochemical cells, and dye-sensitized solar cells Covers the photogeneration of hydrogen, photoreduction of carbon dioxide, and artificial/mimicking photosynthesis Discusses the generation of electricity from solar cells, as well as methods for storing solar energy in the form of chemical energy Highlights existing photochemical methods of solar energy conversion and storage Explores emerging trends such as the use of nanoparticles Solar Energy Conversion and Storage: Photochemical Modes provides a comprehensive, state-of-the-art reference for graduate students, researchers, and engineers alike.

Data Science and Big Data Analytics - Durgesh Kumar Mishra 2018-08-01

This book presents conjectural advances in big data analysis, machine learning and

computational intelligence, as well as their potential applications in scientific computing. It discusses major issues pertaining to big data analysis using computational intelligence techniques, and the conjectural elements are supported by simulation and modelling applications to help address real-world problems. An extensive bibliography is provided at the end of each chapter. Further, the main content is supplemented by a wealth of figures, graphs, and tables, offering a valuable guide for researchers in the field of big data analytics and computational intelligence.

Sustainable Machining - J. Paulo Davim 2017-03-19

This book provides an overview on current sustainable machining. Its chapters cover the concept in economic, social and environmental dimensions. It provides the reader with proper ways to handle several pollutants produced during the machining process. The book is useful on both undergraduate and postgraduate levels and it is of interest to all those working with manufacturing and machining technology.

Nanoscale VLSI - Rohit Dhiman 2020-10-03

This book describes methodologies in the design of VLSI devices, circuits and their applications at nanoscale levels. The book begins with the discussion on the dominant role of power dissipation in highly scaled devices.The 15 Chapters of the book are classified under four sections that cover design, modeling, and simulation of electronic, magnetic and compound semiconductors for their applications in VLSI devices, circuits, and systems. This comprehensive volume eloquently presents the design methodologies for ultra–low power VLSI design, potential post–CMOS devices, and their applications from the architectural and system perspectives. The book shall serve as an invaluable reference book for the graduate students, Ph.D./ M.S./ M.Tech. Scholars, researchers, and practicing engineers working in the frontier areas of nanoscale VLSI design.

Tailor-Made Polysaccharides in Biomedical Applications - Amit Kumar Nayak 2021-02-15 Tailor-Made Polysaccharides in Biomedical Applications provides extensive details on all the vital precepts, basics, and fundamental aspects of tailored polysaccharides in the pharmaceutical and biotechnological industries. This information provides readers with the foundation for understanding and developing high-quality products. The utilization of natural polymeric excipients in numerous healthcare applications demands the replacement of the synthetic polymers with natural polymers. Natural polymers are superior in terms of biocompatibility, biodegradability, economic extraction, and ready availability. Natural polymers are especially useful in that they are a renewable source of raw materials, as long as they are grown sustainably. Among these natural polymers, polysaccharides are considered as excellent excipients because they are nontoxic, stable, and biodegradable. Several research innovations have been carried out using polysaccharides in drug delivery applications. This book offers a comprehensive resource to understand the potential of these materials in forming new drug delivery methods. It will be useful to biomedical researchers, chemical engineers, regulatory scientists, and students who are actively involved in developing pharmaceutical products for biomedical applications by using tailor-made polysaccharides. Provides methodology for the design, development, and selection of tailor-made polysaccharides in biomedical applications, including for particular therapeutic applications Includes illustrations demonstrating the mechanism of biological interaction of tailor-made polysaccharides Discusses the regulatory aspects and demonstrates the clinical efficacy of tailor-made polysaccharides

Epitope Discovery and Synthetic Vaccine Design - Clarisa Beatriz Palatnik-de-Sousa 2018-07-12

Organic Thin-Film Transistor Applications - Brajesh Kumar Kaushik 2016-09-15
Text provides information about advanced OTFT (Organic thin film transistor) structures, their modeling and extraction of performance parameters, materials of individual layers, their molecular structures, basics of pi-conjugated semiconducting materials and their properties, OTFT charge transport phenomena and fabrication techniques. It includes applications of OTFTs such as single and dual gate OTFT based inverter circuits along with bootstrap techniques, SRAM cell designs based on different material and circuit configurations, light emitting diodes (LEDs). Besides this, application of dual gate OTFT in the logic gate, shift register, Flip-Flop, counter circuits will be included as well.

Plant Products for Antiviral Therapeutics - Banasri Hazra 2022-11-18

Data Engineering and Communication Technology - K. Ashoka Reddy
This book includes selected papers presented at the 4th International Conference on Data Engineering and Communication Technology (ICDECT 2020), held at Kakatiya Institute of Technology & Science, Warangal, India, during 25-6 September 2020. It features advanced, multidisciplinary research towards the design of smart computing, information systems and electronic systems. It also focuses on various innovation paradigms in system knowledge, intelligence and sustainability which can be applied to provide viable solutions to diverse problems related to society, the environment and industry.

Annual Report - Indian Council of Social Science Research - Indian Council of Social Science Research 2013

Transition Metal Catalysed Reactions - International Union of Pure and Applied Chemistry 1999