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CURRENT Essentials of Medicine, Fourth Edition
Uncertainties, Modelling, Analysis and Optimization
API Textbook of Medicine (Volume I & II)
The Life and Teachings of Shirdi Sai Baba Shri Sai Satcharita
IAP Guidebook on Immunization 2018-2019 Report
Proceedings of the International Conference PHENMA 2020
Microbial Diversity and Biotechnology in Food Security
Advances in Protein Molecular and Structural Biology Methods
IIENC 2020
Frontiers in Protein Structure, Function, and Dynamics
Volume 1: Applications in Cancers and Immunological Diseases
Advances in VLSI, Communication, and Signal Processing
Encyclopedia of Indian Cinema
Proceedings of FICR-TEAS 2020

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edited by

HINTON WILSON

CURRENT Essentials of Medicine, Fourth Edition Springer 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 *Uncertainties, Modelling, Analysis and Optimization* Springer Nature

Vols. for 1973/74- include Directory and Who's who sections.

API Textbook of Medicine (Volume I & II) Academic Press

The roles of microbes in agriculture, industry and environment have been the point of interest since long time for their potential exploitation. Although only a fraction of microbial diversity was accessed by microbiologists earlier for harnessing them owing to limited techniques available. The molecular techniques have opened new vistas to access the wide field of the unexplored microbes and their exploitation for useful genes and novel metabolites. Sincere efforts have been made in biotechnology using microbes leading to improve our life with respect to agriculture and people health. This comprehensive volume covers different aspects of microbial biotechnology and its

management in sustainable agriculture for food security and improved human health. The book comprises four sections: Endophytes and Mycorrhizae, Microbial Diversity and Plant Protection, Microbial Functions and Biotechnology, and Microbes and the Environment, which contain 53 chapters. The book examines the aspects on endophytes and mycorrhizae, bioactive compounds, growth promoting microorganisms, disease management with emphasis on biocontrol, genetics of disease resistance, microbial enzymes, advances in potential of microbes and their industrial as well as pharmaceutical applications. In addition, the use of botanicals, and the etiology and management of medicinal and aromatic plants in the post harvest management have been reviewed in greater depth for the benefit of teaching and research community. The biotechnological developments using microbe potential have enabled us combat the environment and human health problems worldwide in ecofriendly manner. We are sure that this volume will be highly useful to all those concerned with fungi, bacteria, viruses and their biology, including environmental and public health officers and professionals in the field of interest. The volume is an exhaustive coverage of almost all the aspects of microbial biology

and biotechnology.

The Life and Teachings of Shirdi Sai Baba

Springer 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
Shri Sai Satcharita Springer Nature
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.
IAP Guidebook on Immunization 2018-2019 Springer
System VaccinologyThe History, the Translational Challenges and the FutureAcademic Press
Report Jaypee Brothers Medical Publishers
The book presents high-quality research papers presented at

the first international conference, ICICCD 2016, organised by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 2nd and 3rd April, 2016. The book is broadly divided into three sections: Intelligent Communication, Intelligent Control and Intelligent Devices. The areas covered under these sections are wireless communication and radio technologies, optical communication, communication hardware evolution, machine-to-machine communication networks, routing techniques, network analytics, network applications and services, satellite and space communications, technologies for e-communication, wireless Ad-Hoc and sensor networks, communications and information security, signal processing for communications, communication software, microwave informatics, robotics and automation, optimization techniques and algorithms, intelligent transport, mechatronics system, guidance and navigation, algorithms, linear/non-linear control, home automation, sensors, smart cities, control systems, high performance computing, cognition control, adaptive control, distributed control, prediction models, hybrid control system, control

applications, power system, manufacturing, agriculture cyber physical system, network control system, genetic control based, wearable devices, nano devices, MEMS, bio-inspired computing, embedded and real-time software, VLSI and embedded systems, FPGA, digital system and logic design, image and video processing, machine vision, medical imaging, and reconfigurable computing systems.

Proceedings of the International Conference PHENMA 2020

Universal-Publishers
This unifying theme of this book-with sections on mechanisms of defense and neuropathogenesis, neurological diseases, infections of the nervous system, neuropharmacology, and novel therapies-is interactions of the immune and nervous systems. It also discusses the role of inflammation as a key mediator of different brain disorders. There have been significant scientific advances in the multidisciplinary field of neuroimmunology / neuroinflammation in the past decade, and this book, edited under the guidance of Professor P. N. Tandon, fosters communication between those who share an interest in this exciting area, including neuroscientists, immunologists, cell biologists, clinicians and neuropharmacologists.

Microbial Diversity and Biotechnology in Food Security Springer
This book is a platform for anyone who wishes to explore Artificial Intelligence in the field of agriculture from scratch or broaden their understanding and its uses. This book offers a practical, hands-on exploration of Artificial Intelligence, machine learning, deep Learning, computer vision and Expert system with proper examples to understand. This book also covers the basics of python with example so that any anyone can easily understand and utilize artificial intelligence in agriculture field. This book is divided into two parts wherein first part talks about the artificial intelligence and its impact in the agriculture with all its branches and their basics. The second part of the book is purely implementation of algorithms and use of different libraries of machine learning, deep learning and computer vision to build useful and sightful projects in real time which can be very useful for you to have better understanding of artificial intelligence. After reading this book, the reader will an understanding of what Artificial Intelligence is, where it is applicable, and what are its different branches, which can be useful in different scenarios. The reader will be familiar with the standard workflow for approaching and solving machine-learning problems, and how to address

commonly encountered issues. The reader will be able to use Artificial Intelligence to tackle real-world problems ranging from crop health prediction to field surveillance analytics, classification to recognition of species of plants etc. Note: T&F does not sell or distribute the hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka. This title is co-published with NIPA.

Advances in Protein Molecular and Structural Biology Methods Springer Nature

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 *IIENC 2020* Springer Nature

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.

Frontiers in Protein Structure, Function, and Dynamics

Academic Press
This book presents selected peer-reviewed contributions from the 2020 International Conference on “Physics and Mechanics of New Materials and Their Applications”, PHENMA 2020 (26–29 March 2021, Kitakyushu, Japan), focusing on processing techniques, physics, mechanics, and applications of advanced materials. The book describes a broad spectrum of promising nanostructures, crystal structures, materials, and composites with unique properties. It presents nanotechnological design approaches, environmental-friendly processing techniques, and physicochemical as well as mechanical studies of advanced materials. The selected contributions describe recent progress in computational materials science methods and algorithms (in particular, finite-element and finite-difference modelling) applied to various technological, mechanical, and physical problems. The presented results are important for ongoing efforts concerning the theory, modelling, and testing of advanced materials. Other results are devoted to

promising devices with higher accuracy, increased longevity, and greater potential to work effectively under critical temperatures, high pressure, and in aggressive environments. *Volume 1: Applications in Cancers and Immunological Diseases* British Film Inst

The perfect quick reference on the wards and in the clinic! The famous "one disease per page" design! CURRENT Essentials of Medicine is a practical, point-of-care pocket handbook that offers "nutshell" information on the diagnosis and treatment of more than 500 medical disorders seen in both primary care and hospital settings. Perfect as a quick reference on the wards or in a busy clinic, this is THE ONLY pocket guide to offer disease essentials in a one-disease-per-page bulleted format. Practical pearls, for which the authors are well known, are offered for almost all conditions. Features To-the-point information on the diagnosis and treatment of more than 500 of the most common diseases seen in clinical practice Convenient one-disease-per page presentation Bulleted data for each disease covering Essentials of Diagnosis, Differential Diagnosis, Treatment, Pearl, and Reference Encompasses both ambulatory and inpatient medicine Includes internal medicine, plus specialties such as

obstetrics/gynecology, surgery, and pediatrics Updated clinical manifestations, diagnostic tests, and treatment considerations throughout

Advances in VLSI, Communication, and Signal Processing

Springer Nature
This is the tenth edition of the authoritative API Textbook of Medicine, completely revised, updated and expanded, with 28 brand new chapters. The textbook is comprised of two volumes, divided into 29 sections. Beginning with an introduction to the practice of medicine, and a disease profile and epidemiology of communicable and non-communicable diseases, each subsequent section covers a separate medical specialty. The second section on 'Clinical Approach to Key Manifestation' has been expanded with six new chapters, including the appropriate selection of imaging modalities. Other new topics in this edition include advanced cardiac life support system, life-style changes in the management of diabetes, diabetes in the elderly, prevention of cardiovascular disease, acute and chronic pancreatitis, and tumours of the liver. Chapters on chronic and sleep-related pulmonary disorders have been completely re-written to highlight their increased prevalence, and a new chapter on

pulmonary rehabilitation has been added. An entirely new section on the ‘Future of Medicine’ including regenerative medicine, nanotechnology and nanomedicine, robotic surgery, and an introduction to ‘space medicine’, brings the API Textbook of Medicine to its conclusion. With 1090 full colour images and illustrations, spanning over 3000 pages, this all-encompassing textbook is a comprehensive guide to the practice of medicine, brought fully up-to-date for physicians, surgeons and post-graduate medical students. Key Points New edition of this comprehensive, two volume textbook Fully revised, updated and expanded with 28 new chapters New section on the future of medicine 1090 full colour images and illustrations Previous edition published 2012

Encyclopedia of Indian Cinema Springer

This is the fourth updated and revised edition of a well-received book that emphasises on fungal diversity, plant productivity and sustainability. It contains new chapters written by leading experts in the field. This book is an up-to-date overview of current progress in mycorrhiza and association with plant productivity and environmental sustainability. The result is a must hands-on guide, ideally suited for agri-biotechnology, soil biology, fungal biology including mycorrrhiza and stress

management, academia and researchers. The topic of this book is particularly relevant to researchers involved in mycorrhiza, especially to food security, plant microbe interaction and environmental protection. Mycorrhizas are symbioses between fungi and the roots of higher plants. As more than 90% of all known species of plants have the potential to form mycorrhizal associations, the productivity and species composition and the diversity of natural ecosystems are frequently dependent upon the presence and activity of mycorrhizas. The biotechnological application of mycorrhizas is expected to promote the production of food while maintaining ecologically and economically sustainable production systems.

Proceedings of FICR-TEAS 2020 System VaccinologyThe History, the Translational Challenges and the Future

First Published in 1999. Routledge is an imprint of Taylor & Francis, an informa company.

Proceeding of International Conference on Intelligent Communication, Control and Devices Springer

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

Proceedings of AIMTDR 2018

Academic Press

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

ICICCD 2016

JP Medical Ltd
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.

Rising Threats in Expert Applications and Solutions

Springer Nature
No Marketing Blurb

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