

Microwave Engineering Book By Sanjeev Gupta

This book comprises select peer-reviewed papers from the International Conference on Emerging Trends in Electromechanical Technologies & Management (TEMT) 2019. The focus is on current research in interdisciplinary areas of mechanical, electrical, electronics and information technologies, and their management from design to market. The book covers a wide range of topics such as computer integrated manufacturing, additive manufacturing, materials science and engineering, simulation and modelling, finite element analysis, operations and supply chain management, decision sciences, business analytics, project management, and sustainable freight transportation. The book will be of interest to researchers and practitioners of various disciplines, in particular mechanical and industrial engineering.

The new edition of Electrophysiological Disorders of the Heart helps you diagnose and treat a full range of heart rhythm disorders using today's latest technologies and therapies. It provides practical, hands-on coverage of hot topics such as pediatric EP, imaging, echocardiography-guided EP procedures, regenerative therapies, cardiac pacing, and more. Now available in a new full-color format, the title also includes easy online access at www.expertconsult.com. Discover new ways to treat and manage the full range of heart rhythm disorders with content focused on common clinical features, diagnosis,

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and management. Review expert management strategies to help you handle complex patient problems. Stay current with the latest molecular and technical advances as well as new treatment options implemented over the last few years. Use the latest technologies and devices to accurately diagnose and manage heart rhythm disorders. Consult new and expanded coverage of regenerative therapies, echo-guided procedures, cardiac pacing, and CRT, as well as a new section on pediatric electrophysiology and imaging. Enjoy improved visual guidance with many new full-color images. Log on to www.expertconsult.com to easily search the complete contents online and access a downloadable image library.

This book presents the select proceedings of the International Conference on Functional Material, Manufacturing and Performances (ICFMMP) 2019. The book provides the state-of-the-art research, development, and commercial prospective of recent advances in materials science and engineering. The contents cover various synthesis and fabrication routes of functional and smart materials for applications in mechanical engineering, manufacturing, metrology, nanotechnology, physics, chemical and biological sciences, civil engineering, food science among others. It also provides the evolutionary behavior of materials science for industrial applications. This book will be a useful resource for researchers as well as professionals interested in the highly interdisciplinary field of materials science.

The focus of this book is the P versus NP Question and

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the theory of NP-completeness. It also provides adequate preliminaries regarding computational problems and computational models. The P versus NP Question asks whether or not finding solutions is harder than checking the correctness of solutions. An alternative formulation asks whether or not discovering proofs is harder than verifying their correctness. It is widely believed that the answer to these equivalent formulations is positive, and this is captured by saying that P is different from NP. Although the P versus NP Question remains unresolved, the theory of NP-completeness offers evidence for the intractability of specific problems in NP by showing that they are universal for the entire class. Amazingly enough, NP-complete problems exist, and furthermore hundreds of natural computational problems arising in many different areas of mathematics and science are NP-complete.

Volume is indexed by Thomson Reuters CPCI-S (WoS). This special volume covers topics such as novel synthesis, processing and applications of advanced materials, micro and nano-structures, oxides and magnetic materials, nanomaterials, semiconductors, microwave dielectric, multiferroics, computational materials science, modeling and simulation of advanced materials and technology such as cryogenics and smart material for health care.

INTERNATIONAL BESTSELLER • WINNER OF THE PULITZER PRIZE • PEN/HEMINGWAY AWARD WINNER. With a new foreword by Domenico Starnone, this stunning debut collection flawlessly charts the emotional journeys of characters seeking love beyond

the barriers of nations and generations. With accomplished precision and gentle eloquence, Jhumpa Lahiri traces the crosscurrents set in motion when immigrants, expatriates, and their children arrive, quite literally, at a cultural divide. A blackout forces a young Indian American couple to make confessions that unravel their tattered domestic peace. An Indian American girl recognizes her cultural identity during a Halloween celebration while the Pakistani civil war rages on television in the background. A latchkey kid with a single working mother finds affinity with a woman from Calcutta. In the title story, an interpreter guides an American family through the India of their ancestors and hears an astonishing confession. Imbued with the sensual details of Indian culture, these stories speak with passion and wisdom to everyone who has ever felt like a foreigner. Like the interpreter of the title story, Lahiri translates between the strict traditions of her ancestors and a baffling new world.

This volume presents selected papers from the 3rd International Conference on Optical and Wireless Technologies, conducted from 16th to 17th March, 2019. It focuses on extending the limits of currently used systems encompassing optical and wireless domains, and explores the latest developments in applications like photonics, high speed communication systems and networks, visible light communication, nano-photonics, wireless, and MIMO systems. The proceedings contain high quality scholarly articles, giving insight into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. This

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volume will prove useful to researchers and professionals alike.

An in-depth look at the tools, techniques, and tactics used in computer forensics *The New Forensics* introduces readers to the world of business forensics, using interesting vignettes, interviews, and actual crime reports. It examines recent cases in which the use of computer forensics led to evidence linking executives to fraud and covers issues such as the theft of trade secrets, the use of data mining, money laundering, and other types of theft and fraud. Author Joe Anastasi, a well-respected leader in computer and business forensics, leads the reader on a shadowy journey through top-secret government offices and real-life business investigations while covering the moral and legal issues surrounding corporate crime. Case studies, stories, and interviews help highlight important issues and move the book out of the theoretical into the realm of actual practice. Joe Anastasi (San Francisco, CA) serves as the Global Leader for Deloitte Forensics, which includes the operation of several Cybercrime Computer Forensics labs located around the world. He is a member of the High-Tech Crime Investigation Association and the Association of Certified Fraud Examiners.

Current Trends in Biomanufacturing focuses on cutting-edge research regarding the design, fabrication, assembly, and measurement of bio-elements into structures, devices, and systems. The field of biomaterial and biomanufacturing is growing exponentially in order to meet the increasing demands of for artificial joints, organs and bone-fixation devices. Rapid advances in the biological sciences and engineering are leading to newer and viable resources, methods and techniques that may providing better quality of life and more affordable health care services. The book covers the broad aspects of biomanufacturing, including:

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synthesis of biomaterials; implant coating techniques; spark plasma sintering; microwave processing; and cladding, powder metallurgy and electrospinning. The contributors illustrate the recent trends of biomanufacturing, highlighting the important aspects of biomaterial synthesis, and their use as feedstock of fabrication technologies and their characterization, along with their clinical practices. Current Trends in Biomanufacturing updates researchers and scientists the novelties and techniques of the field, as it summarises numerous aspects of biomanufacturing, including synthesis of biomaterials, fabrication of biomedical structures, their in-vivo/ in-vitro, mechanical analysis and associated ISO standards.

Electrophysiological Disorders of the Heart E-BookExpert ConsultElsevier Health Sciences

This book is a collection of selected peer-reviewed papers presented at the International Conference on Signal Processing and Communication (ICSC 2018). It covers current research and developments in the fields of communications, signal processing, VLSI circuits and systems, and embedded systems. The book offers in-depth discussions and analyses of latest problems across different sub-fields of signal processing and communications. The contents of this book will prove to be useful for students, researchers, and professionals working in electronics and electrical engineering, as well as other allied fields.

Much of the improved survival rate from heart attack can be traced to Eugene Braunwald's work. He proved that myocardial infarction was an hours-long dynamic process which could be altered by treatment. Thomas H. Lee tells the life story of a physician whose activist approach transformed not just cardiology but the culture of American medicine.

Synthetic diamond is diamond produced by using chemical or physical processes. Like naturally occurring diamond it is

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composed of a three-dimensional carbon crystal. Due to its extreme physical properties, synthetic diamond is used in many industrial applications, such as drill bits and scratch-proof coatings, and has the potential to be used in many new application areas. A brand new title from the respected Wiley Materials for Electronic and Optoelectronic Applications series, this title is the most up-to-date resource for diamond specialists. Beginning with an introduction to the properties of diamond, defects, impurities and the growth of CVD diamond with its imminent commercial impact, the remainder of the book comprises six sections: introduction, radiation sensors, active electronic devices, biosensors, MEMs and electrochemistry. Subsequent chapters cover the diverse areas in which diamond applications are having an impact including electronics, sensors and actuators and medicine. The CRC Concise Encyclopedia of Nanotechnology sets the standard against which all other references of this nature are measured. As such, it is a major resource for both skilled professionals and novices to nanotechnology. The book examines the design, application, and utilization of devices, techniques, and technologies critical to research at the

Interventional Cardiac Electrophysiology is the first and only comprehensive, state-of-the-art textbook written for practitioners in multiple specialties involved in the care of the arrhythmia patient. Encompassing the entire field of interventional therapy for cardiac rhythm management, from basic science to evidence-based medicine to future directions, topics include: Technology and Therapeutic Techniques – EP techniques; imaging and radiologic technology; device and ablation technology; drug therapy. Interventional Electrophysiologic Procedures – Diagnostic and physiologic EP techniques; mapping in percutaneous catheter and surgical EP procedures; catheter and surgical ablation; device implantation and

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management. Clinical Indications and Evidence-based Outcomes Standards – For medical and surgical EP interventions for arrhythmias. New Directions in Interventional Electrophysiology – Hybrid therapy for atrial and ventricular arrhythmias and staged therapy. This book will be essential reading for clinicians and researchers that form the health care team for arrhythmia patients: cardiologists, adult and pediatric clinical electrophysiologists, interventional electrophysiologists, cardiac surgeons practicing arrhythmia surgery, allied health care professionals, pharmacologists, radiologists and anesthesiologists evaluating arrhythmia patients, and basic scientists from the biomedical engineering and experimental physiology disciplines. Professor Sanjeev Saksena has been involved in this arena for over three decades and has brought his experience to this textbook, assembling editorial leadership from medical and surgical cardiology to provide a global perspective on fundamentals of medical practice, evidence-based therapeutic practices, and emerging research in this field. This book includes 95 videos. Ayurveda is widely considered to be one of the oldest health care traditions still in practice today. Originating in India over 3,000 years ago, it is now increasingly recognized and practiced globally including in many European countries and the United States. Food and nutrition play a crucial role in the health care wisdom of Ayurveda. The Ayurvedic Science of Food and Nutrition discusses the various principles of healthy eating as prescribed by Ayurveda. Divided into three sections, it addresses the fundamentals, the clinical applications, and the future challenges of Ayurveda. Specifically, the book discusses issues such as the concept of diet, the use of food as medicine, especially to treat diabetes and cancer, convalescent food practices, and fasting therapy. The Ayurvedic Science of Food and Nutrition is unique in that it is one of the only books to investigate the scientific rationale

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behind Ayurveda, enabling this health care tradition to potentially be incorporated into a Western clinical practice model when this latter conventional therapy is found to be ineffective.

Bendable wearable materials like conductive strands, fluid metallic mixes, and polymer in paper are generally utilized as a part of the current adaptable electronic gadgets. Extra necessities are implemented in wearable applications.

Characteristic elastic, for example, is an appealing exchange adaptable material that is biocompatible and offers high conductivity, low cost, simplicity to make, and most importantly, it is water/climate safe and condition amicable.

The wearable antenna is one of the key components to establish body area network (BAN) for wireless communication, which is why it has become such an important part of antenna research. Wearable antennas are being applied successfully in various parts of life such as health monitoring, physical training, navigation, RFID, medicine, military, and more. Emerging Materials and Advanced Designs for Wearable Antennas explores how wearable antenna technology is being employed to enhance the quality of life in various industries. The technologies implemented and success of these antenna technologies is essential in the emerging field of wearable computing and is discussed in detail within the contents of this book. While covering essential topics such as the optimization of antenna material, improvement in flexible antenna performance, synthesis and design aspects of antennas, and transmission and receiving of the bendable antenna, this book is ideal for the military field, scientists, the medical field, practitioners, stakeholders, researchers, academicians, and students looking for the most advanced and updated research on the technology and implementation of wearable antennas spanning multiple industries.

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In the last decade, Indian food has grown ever more popular throughout North America. Now, in this one-of-a-kind cookbook, Smita Chandra introduces the ancient art of tandoori cooking, modified for a kitchen or backyard grill. Since most home chefs in America don't have access to a tandoor -- a large clay oven sunk into the ground and layered with glowing charcoal -- Chandra spent years perfecting traditional tandoori recipes for the home grill. In *Indian Grill*, she presents a complete range of over 100 dishes, from vegetables and chicken to seafood and lamb, with accompanying raitas, chutneys, and dips. Other chapters are devoted to appetizers and drinks, basic sauces, soups and salads, and rice. Recipe headnotes offer the reader a culinary history, evoking the beguiling tastes, smells, and sights of India. Among the mouth-watering recipes are Machali Masala (grilled breaded salmon steaks marinated in olive oil, lemon juice, herbs, and spices); Achari Kabobs (lamb marinated in pickling spices, onions, and vinegar); and Thayir Pachadi (cucumber with grilled potatoes, onions, and tomatoes in yogurt); as well as many others. Vegetarians, who often have little choice at barbecues, will find a sumptuous selection of vegetable dishes, such as Baingan Kashmiri (baby eggplant coated in a sweet-and-sour tamarind fennel sauce served with grilled apples). Ideal for both the summer backyard barbecue and the indoor kitchen grill, *Indian Grill* is a fresh, flavorful, and healthy take on Indian cooking, tandoori style. This book comprises select proceedings of the international conference ETAEERE 2020, and focuses on contemporary issues in energy management and energy efficiency in the context of power systems. The contents cover modeling, simulation and optimization based studies on topics like medium voltage BTB system, cost optimization of a ring frame unit in textile industry, rectenna for RF energy harvesting, ecology and energy dimension in infrastructural

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designs, study of AGC in two area hydro thermal power system, energy-efficient and reliable depth-based routing protocol for underwater wireless sensor network, and power line communication. This book can be beneficial for students, researchers as well as industry professionals. .

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers. Wearable continuous monitoring systems are necessary in risky environments such as mining and diving and are

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especially important in the medical monitoring of patients both in medical facilities and at home. All these applications of monitoring with data transmission functions can be achieved by using wearable antennas. Recently, possibilities of connecting completely independent appliances with textiles have emerged. However, full success will be achieved only when antennas and all related components are entirely converted into 100% textile materials. Design and Optimization of Sensors and Antennas for Wearable Devices: Emerging Research and Opportunities provides innovative insights on the development of adaptable materials and textile antennas that can be used in the construction of wearable devices that are biocompatible and offer high conductivity, low cost, simplistic manufacturing, are comfortable for the wearer, and are water/climate safe and condition amicable. The content within this publication examines data transmission, wearable computing, and medical applications. It is designed for engineers, manufacturers, researchers, academicians, and scientists who are interested in the development of wearable technologies.

Every 3rd issue is a quarterly cumulation.

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21–22 December 2018. Covering a range of recent advances in intelligent

communication, intelligent control and intelligent devices., the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of. For most tracking applications the Kalman filter is reliable and efficient, but it is limited to a relatively restricted class of linear Gaussian problems. To solve problems beyond this restricted class, particle filters are proving to be dependable methods for stochastic dynamic estimation. Packed with 867 equations, this cutting-edge book introduces the latest advances in particle filter theory, discusses their relevance to defense surveillance systems, and examines defense-related applications of particle filters to nonlinear and non-Gaussian problems. With this hands-on guide, you can develop more accurate and reliable nonlinear filter designs and more precisely predict the performance of these designs. You can also apply particle filters to tracking a ballistic object, detection and tracking of stealthy targets, tracking through the blind Doppler zone, bi-static radar tracking, passive ranging (bearings-only tracking) of maneuvering targets, range-only tracking, terrain-aided tracking of ground vehicles, and group and extended object tracking. To much of humanity--entering, living and departing this world appears to happen within a violent "warzone." However, in actuality, entering, living and departing this world is a "Vor Zone." This Vor Zone

(short for Vortex Zone) is camouflaged by the warzone. To put it another way, our pure consciousness (Vor Zone) is camouflaged by the human ego (warzone). It is our choice, whether to stay in this back-and-forth dichotomy: a warzone of continuous human suffering, or a Vor Zone of pure unadulterated consciousness. Logically, we should only choose the latter. But how do we escape the warzone? This book will tell you. Science supports the fulfillment of everyone's mission on this planet through consciousness. That mission is to create, manifest, expand and evolve. We have no other directive, no other mission to fulfill. Science and consciousness are always on your side if you humble yourself, clear your mind of background noise and focus on defining your own personal feel-good mission with willpower, patience and integrity. Treat yourself and others with utmost respect and clarity while you are here in your current body and situation. Think of it as grabbing a handful of snow. By adding more snow, you can create a bigger and bigger snowball. It is the author's hope that his discoveries add to your understanding and to the world's collective wisdom. Together, we can start an avalanche.

The bioactivity potential of marine polysaccharides has long been considered an underexploited aspect. These molecules found in seaweed, microalgae, bacteria, and animal fish (shellfish, mollusks, etc.)

and the derived oligosaccharides need to be explored thoroughly with an interdisciplinary approach. They are an extraordinary source of chemical diversity, and the literature highlights many applicative fields, including the food industry, cosmetics, biomedicine, agriculture, environmental protection, wastewater management, etc. More recently, a new challenge has emerged: the exploitation of marine biomass as the source of sustainable energy to participate in the future replacement of fossil resources. *Enzymatic Technologies for Marine Polysaccharides* provides insight into the recent research developments of marine polysaccharides and their current and potential applications. The first section of the book explores the diversity of marine polysaccharides from various angles, including a description of the chemical complexity and current applications and new perspectives in food, pharmaceutical, cosmetics, and biomaterials offered by recent research. Efficient valorization of the marine polysaccharide biomass requires a rigorous analysis of the polysaccharides structure and their biological properties. The second section of the book concerns the development of extraction techniques and the improvement of the methods aimed at the characterization of their structure and function. Finally, the third and last section of the book articulates the enzymatic technologies from the

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discovery of novel enzymes to their production pipelines related to the fields of biorefinery, food, pharmaceuticals, and other fine chemicals. Presents the latest research in marine oligosaccharides and polysaccharides Written by world-class researchers in marine enzyme technology Discusses the latest developments in extraction methods Presents a detailed overview of enzymatic routes for modification, production, and synthesis of marine oligosaccharides Contains extensive references at the end of each chapter to enhance further study This book presents a selection of revised and extended versions of the best papers from the First International Conference on Social Networking and Computational Intelligence (SCI-2018), held in Bhopal, India, from October 5 to 6, 2018. It discusses recent advances in scientific developments and applications in these areas. This book provides insights into waste management practices in developing countries, and the application of research and innovation in finding appropriate solutions to improved waste management. The chapters have been selected with a focus on organic waste beneficiation, a significant waste stream in developing countries; the role of government and associated policy interventions; citizen behaviour in support of greater waste recycling; and the safe management of hazardous waste, particularly healthcare risk waste.

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This Book Is Not Merely A Collection Of Recipes, But An Attempt To Encourage People To Cook-And Cook With Confidence. It Is An Assortment Of Delectable Dishes That Good Food Lovers And Connoisseurs Of Indian Cuisine Would Relish

A unique and in-depth discussion uncovering the unifying features of collision phenomena in liquids and solids, along with applications.

This open access book describes modern applications of computational human modeling with specific emphasis in the areas of neurology and neuroelectromagnetics, depression and cancer treatments, radio-frequency studies and wireless communications. Special consideration is also given to the use of human modeling to the computational assessment of relevant regulatory and safety requirements. Readers working on applications that may expose human subjects to electromagnetic radiation will benefit from this book's coverage of the latest developments in computational modelling and human phantom development to assess a given technology's safety and efficacy in a timely manner. Describes construction and application of computational human models including anatomically detailed and subject specific models; Explains new practices in computational human modeling for neuroelectromagnetics, electromagnetic safety, and exposure evaluations; Includes a survey of modern applications for which computational human models are critical; Describes cellular-level interactions between the human body and electromagnetic fields.

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