

Microwave Engineering By Sanjeev Gupta

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Nanoelectronics, Circuits and
Communication Systems Tata McGraw-
Hill Education

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: 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.

International Conference on Modelling and Engineering and Technological Problems (ICMETP) and Teh 9th Biennial National Conference of Indian Society of Industrial and Applied Mathematics (ISIAM) Springer Nature

Includes authors, titles, subjects.

Recent Trends in Electronics and Communication Microwave Engineering
Electromagnetic Theory and Applications

The Department of Electronics and Communication Engineering of KIET Group of Institutions, Delhi-NCR organized the 4th International Conference ICCE-2020 during November 28-29, 2020. Information compiled in this book is based on the 114 research papers of excellent quality covering different domains of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering. The subject areas treated in the book are: Satellite, Radar and Microwave Techniques, Secure, Smart, and Reliable Networks, Next Generation Networks, Devices & Circuits, Signal & Image Processing, New Emerging Technologies, having the central focus

on Recent Trends in Communication & Electronics (ICCE-2020). In addition, a few themes based on Special Sessions have also been conducted in ICCE-2020. The objective of the book resulting from the 4th International Conference on Recent Trends in Communication & Electronics (ICCE-2020) is to provide a resource for the study and research work for an interested audience comprising of researchers, students, audience, and practitioners in the areas of Communications & Computing Systems.

Ten-year Cumulation, 1973-1982

Springer Nature

Microwave Engineering
Electromagnetic Theory and Applications
Alpha Science International Limited

Select Proceedings of VCAS 2019

Springer

This book comprises select proceedings of the International Conference on VLSI, Communication and Signal processing (VCAS 2020). The contents are broadly divided into three topics - VLSI, Communication, and Signal Processing. The book focuses on the latest innovations, trends, and challenges encountered in the different areas of electronics and communication, especially in the area of microelectronics and VLSI design, communication systems and networks, and image and signal processing. It also offers potential solutions and provides an insight into various emerging areas such as Internet of Things (IoT), System on a Chip (SoC), Sensor Networks, underwater and underground communication networks

etc. This book will be useful for academicians and professionals alike.

Microwave Technology Allied Publishers

Electromagnetic Theory and Applications aims to serve as a textbook for Physics and Engineering Students. The book covers vector algebra, electrostatics, electric field in dielectrics, boundary value problems, magnetostatics, maxwell equations and wave propagation, waves at an interface, transmission lines and wave guides, retarded potentials and radiating systems.

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Biomanufacturing Springer Science & Business Media

Currently, informatics within the field of public health is a developing and growing industry. Clinical informatics are used in direct patient care by supplying medical practitioners with information that can be used to develop a care plan. Intelligent applications in clinical informatics facilitates with the

technology-based solutions to analyze data or medical images and help clinicians to retrieve that information. Decision models aid with making complex decisions especially in uncertain situations. The Handbook of Research on Applied Intelligence for Health and Clinical Informatics is a comprehensive reference book that focuses on the study of resources and methods for the management of healthcare infrastructure and information. This book provides insights on how applied intelligence with deep learning, experiential learning, and more will impact healthcare and clinical information processing. The content explores the representation, processing, and communication of clinical information in natural and engineered

systems. This book covers a range of topics including applied intelligence, medical imaging, telehealth, and decision support systems, and also looks at technologies and tools used in the detection and diagnosis of medical conditions such as cancers, diabetes, heart disease, lung disease, and prenatal syndromes. It is an essential reference source for diagnosticians, medical professionals, imaging specialists, data specialists, IT consultants, medical technologists, academicians, researchers, industrial experts, scientists, and students.

Advances in VLSI, Communication, and Signal Processing Intl. Engineering Consortiu

2D Materials for Surface Plasmon Resonance-based Sensors offers

comprehensive coverage of recent design and development (including processing and fabrication) of 2D materials in the context of plasmonic-based devices. It provides a thorough overview of the basic principles and techniques used in the analysis and design of 2D material-based optical sensor systems. Beginning with the basic concepts of plasmon/plasmonic sensors and mathematical modelling, the authors explain the fundamental properties of 2D materials, including Black Phosphorus (BP), Phosphorene, Graphene, Transition metal dichalcogenides (TMDCs), MXene's and SW-CNT. It also details the applications of these emerging materials in clinical diagnosis and their future trends. This text will be useful for practising

engineers, undergraduate and postgraduate students. Key Features Presents the fundamental concepts of 2D material assisted fibre optic and prism based SPR sensor in a student-friendly manner. Includes the recent synthesis and characterization techniques of 2D materials. Provides computational results of recently discovered electronic and optical properties of the 2D materials along with their effectiveness in the field of plasmonic sensors. Presents emerging applications of novel 2D material-based plasmonic sensors in the field of chemical, bio-chemical and biosensing.

Microwave Engineering CRC Press

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical

Engineering (FLAME 2020). This book, in particular, focuses on characterizing materials using novel techniques. It covers a variety of advanced materials, viz. composites, coatings, nanomaterials, materials for fuel cells, biomaterials among others. The book also discusses advanced characterization techniques like X-ray photoelectron, UV spectroscopy, scanning electron, atomic power, transmission electron and laser confocal scanning fluorescence microscopy, and gel electrophoresis chromatography. This book gives the readers an insight into advanced material processes and characterizations with special emphasis on nanotechnology.

Advances in Signal Processing and Communication Springer Nature

This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid

manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

Proceedings of ICTSES 2018
American Institute of Physics

Pozar's new edition of Microwave Engineering includes more material on

active circuits, noise, nonlinear effects, and wireless systems. Chapters on noise and nonlinear distortion, and active devices have been added along with the coverage of noise and more material on intermodulation distortion and related nonlinear effects. On active devices, there's more updated material on bipolar junction and field effect transistors. New and updated material on wireless communications systems, including link budget, link margin, digital modulation methods, and bit error rates is also part of the new edition. Other new material includes a section on transients on transmission lines, the theory of power waves, a discussion of higher order modes and frequency effects for microstrip line, and a discussion of how to determine unloaded.

Emerging Research and Opportunities Pearson Education India

This book presents selected papers from 1st International Conference on Optical and Wireless Technologies, providing insights into the analytical, experimental, and developmental aspects of systems, techniques, and devices in these spheres. It explores the combined use of various optical and wireless technologies in next-generation networking applications, and discusses the latest developments in applications such as photonics, high-speed communication systems and networks, visible light communication, nanophotonics, and wireless and multiple-input-multiple-output (MIMO) systems. The book will serve as a valuable reference resource for

academics and researchers across the globe.

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FINAL THOUGHT

Next-Generation Antennas Springer Nature

The book compiles the research works related to smart solutions concept in context to smart energy systems, maintaining electrical grid discipline and resiliency, computational collective intelligence consisted of interaction between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It includes high-quality papers presented in the International Conference on Intelligent Computing Techniques for Smart Energy Systems organized by Manipal University Jaipur. This book will motivate scholars to work

in these areas. The book also prophesies their approach to be used for the business and the humanitarian technology development as research proposal to various government organizations for funding approval.

TCP/IP, Web/Java Programming, and Cloud Computing Springer Nature

This Book Has Been Written Strictly According To The Latest Syllabus Prescribed By U.P. Technical University, Lucknow For Undergraduate Students Of Electronics & Communication Engineering. Its First Chapter Discusses The Microwave Propagation Through Waveguides. The Second Chapter Describes Microwave Cavity Resonators. Third Chapter Deals With Microwave Components. Chapter Four Explains Various Microwave Measurements.The

Chapter Five Discusses Limitations Of Conventional Active Devices At Microwave Frequencies And Introduces Various Microwave Tubes And Their Classification. Chapter Six Is Divided Into Three 6A, 6B & 6C And Discusses O-Type (6A, 6B) And M-Type (6C) Tubes. Microwave Semiconductor Devices Have Been Discussed In Chapters Seven To Nine. Microwaves And Their Applications Are Described In An Introduction. Authors Have Taken Special Care In Keeping A Balance Between Mathematical And Physical Approach. Large Number Of Illustrative Diagrams Have Been Incorporated. A Good Number Of Solved Problems, Picture From University Examination Papers, Have Been Included For Reinforcing The Key Concepts.

Social Networking and Computational Intelligence I. K. International Pvt Ltd

This book contains the applications of radars, fundamentals and advanced concepts of CW, CW Doppler, FMCW, Pulsed doppler, MTI, MST and phased array radars etc. It also includes effect of different parameters on radar operation, various losses in radar systems, radar transmitters, radar receivers, navigational aids and radar antennas. Key features : -Nine chapters exclusively suitable for one semester course in radar engineering. * More than 100 solved problems. * More than 1000 objective questions with answers. * More than 600 multiple choice questions with answers. * Five model question papers. * Logical and self-understandable system description.

Handbook of Research on Applied Intelligence for Health and Clinical Informatics IGI Global

This book includes high-quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications (ICCWC 2021), held at National Institute of Technology, Kurukshetra, Haryana, India, during June 11-12, 2021. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and

wireless networks.

Proceeding of NCCS 2018 Springer

Cogently addressing the future of signal integrity and the effect it will have on the data-transmission industry as a whole, this all-inclusive guide addresses a wide array of technologies, from traditional, digital data transmission to microwave measurements, and accessibly examines the gap between the two. Focusing on real-world applications and providing a wide array of case studies that show how each technology can be used?from backplane design challenges to advanced error correction techniques?this guide addresses many of today's high-speed technologies while also providing excellent insight into their future direction. With numerous valuable

lessons pertaining to the signal integrity industry, this resource is the ultimate must-read guide for any specialist in the design engineering field.

2D Materials for Surface Plasmon Resonance-based Sensors Springer

Wearable continuous monitoring systems are necessary in risky environments such as mining and diving and are 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.

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REVIEW OF MICROWAVE ENGINEERING BY SANJEEV GUPTA

- This is a surprisingly effective tape. Unlike other motivational tapes, the listener is empowered, IF ATTENTIVE, to re-create motivation without leaning on some outside (and therefore unreliable) stimulus. Also unlike other motivational tapes this one is not an entertainment. Not that it isn't sometimes entertaining, it just isn't the equivalent of chewing

gum for the mind while you're on the stairmaster. There's no superhyped voice trying to crank you up. My experience is that whatever motivation comes from the performances on those tapes evaporates quickly and has to be readministered. Like a drug. What I didn't like about this tape was the slick and chirpy woman's voice to announce each chapter. It kept reminding me of the other kind of motivational product. Use this tape for what it says and not to pass the time

- 100 Ways To Motivate Yourself: Change Your Life Forever This book should be on everyone's list, not just those who want to get motivated. You will gain a wealth of information about how to live productively, mentally, and socially. Did you know that shy people

are egomaniacs.