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Antenna and Wave Propagation K.D. Prasad 1996

Bioinspired Materials Science and Engineering Guang Yang 2018-08-21

An authoritative introduction to the science and engineering of bioinspired materials *Bioinspired Materials Science and Engineering* offers a comprehensive view of the science and engineering of bioinspired materials and includes a discussion of biofabrication approaches and applications of bioinspired materials as they are fed back to nature in the guise of biomaterials. The authors also review some biological compounds and shows how they can be useful in the engineering of bioinspired

materials. With contributions from noted experts in the field, this comprehensive resource considers biofabrication, biomacromolecules, and biomaterials. The authors illustrate the bioinspiration process from materials design and conception to application of bioinspired materials. In addition, the text presents the multidisciplinary aspect of the concept, and contains a typical example of how knowledge is acquired from nature, and how in turn this information contributes to biological sciences, with an accent on biomedical applications. This important resource: Offers an introduction to the science and engineering principles for the development of bioinspired materials Includes a summary of recent developments on

biotemplated formation of inorganic materials using natural templates
Illustrates the fabrication of 3D-tumor invasion models and their potential application in drug assessments
Explores electroactive hydrogels based on natural polymers
Contains information on turning mechanical properties of protein hydrogels for biomedical applications
Written for chemists, biologists, physicists, and engineers, *Bioinspired Materials Science and Engineering* contains an indispensable resource for an understanding of bioinspired materials science and engineering.

Digital Electronics Anil K. Maini 2007-09-27 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, de-multiplexers, 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.

Electrical Circuit Theory and Technology John Bird 2003-01-20 *Electrical Circuit Theory and Technology* is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's

own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

Signals and Systems Alan V. Oppenheim 2013-07-29 For undergraduate-level courses in Signals and Systems. This comprehensive exploration of signals and systems develops continuous-time and discrete-time concepts/methods in parallel -- highlighting the similarities and differences -- and features introductory treatments of the applications of these basic methods in such areas as filtering, communication, sampling, discrete-time processing of continuous-time signals, and feedback. Relatively self-contained, the text assumes no prior experience with system analysis, convolution, Fourier analysis, or Laplace and z-transforms.

Sustainability in Engineering Design and Construction J. K. Yates
2018-09-03 Successfully Measure the Benefits of Green Design and

Construction Sustainability in Engineering Design and Construction outlines the sustainable practices used in engineering design and construction operations for all types of engineering and construction projects. Aimed at ushering the engineering and construction industry into embracing sustainable practices and green construction techniques, this book addresses sustainability in engineering design and construction operations from a historical and global perspective, and delves into specific sustainability concepts and processes. The book explains the concepts of sustainable development, corporate social responsibility (CSR), the Dow Jones Global Sustainability Index (DJGSI), key performance indicators (KPIs), corporate sustainability, and the triple bottom line (economic, environmental, and social values in design and construction). Relevant to sustainability in every facet of engineering and construction, it also covers life-cycle environmental cost analysis, discusses sustainable engineering and site selection, the economic considerations evaluated when making sustainability decisions, and explains how to measure and quantify sustainable performance and apply these practices in the real world. It also covers project and corporate level sustainability practices, sustainable construction materials and processes, sustainable heavy construction equipment, traditional and alternative energy sources, provides implementation resources for starting and

evaluating sustainability programs, and includes a checklist for measuring the sustainability of construction operations. The text contains detailed information on sustainable construction materials and processes, heavy construction equipment, and traditional and alternative energy sources. It presents information on sustainable designs, selecting sustainable sites, designing for passive survivability, designing for disassembly, and the ISO 14,000 standards. It provides implementation resources for starting and evaluating sustainability programs and a checklist for measuring the sustainability of construction operations In addition, it provides definitions of sustainability terms and expressions, as well as case studies, examples, discussion questions, and a list of supplemental references at the end of each chapter. This book provides information on:

- Definitions for sustainability terms
- Sources for locating global sustainability requirements
- Current sustainability issues
- Environmental laws related to sustainability and their implications
- Sustainable design
- Life-cycle cost assessment models
- Sustainable practices currently being used in the engineering and construction (E&C) industry
- Corporate-level sustainability practices
- Project-level sustainability practices
- Global sustainability trends and implications
- Sustainable materials
- Sustainable heavy construction equipment
- Traditional and alternative energy sources
- LEED Green Building Rating System
- Sustainability organizations and certification programs

Sustainability implementation resources A summary of sustainable engineering design and construction

Transformers and Inductors for Power Electronics W.G. Hurley 2013-04-29

Based on the fundamentals of electromagnetics, this clear and concise text explains basic and applied principles of transformer and inductor design for power electronic applications. It details both the theory and practice of inductors and transformers employed to filter currents, store electromagnetic energy, provide physical isolation between circuits, and perform stepping up and down of DC and AC voltages. The authors present a broad range of applications from modern power conversion systems. They provide rigorous design guidelines based on a robust methodology for inductor and transformer design. They offer real design examples, informed by proven and working field examples. Key features include: emphasis on high frequency design, including optimisation of the winding layout and treatment of non-sinusoidal waveforms a chapter on planar magnetic with analytical models and descriptions of the processing technologies analysis of the role of variable inductors, and their applications for power factor correction and solar power unique coverage on the measurements of inductance and transformer capacitance, as well as tests for core losses at high frequency worked examples in MATLAB, end-of-chapter problems, and an accompanying website containing

solutions, a full set of instructors' presentations, and copies of all the figures. Covering the basics of the magnetic components of power electronic converters, this book is a comprehensive reference for students and professional engineers dealing with specialised inductor and transformer design. It is especially useful for senior undergraduate and graduate students in electrical engineering and electrical energy systems, and engineers working with power supplies and energy conversion systems who want to update their knowledge on a field that has progressed considerably in recent years.

Wireless Power Transfer Eugen Coca 2016-06-29 Wireless power transfer techniques have been gaining researchers' and industry attention due to the increasing number of battery-powered devices, such as mobile computers, mobile phones, smart devices, intelligent sensors, mainly as a way to replace the standard cable charging, but also for powering battery-less equipment. The storage capacity of batteries is an extremely important element of how a device can be used. If we talk about battery-powered electronic equipment, the autonomy is one factor that may be essential in choosing a device or another, making the solution of remote powering very attractive. A distinction has to be made between the two forms of wireless power transmission, as seen in terms of how the transmitted energy is used at the receiving point: - Transmission of

information or data, when it is essential for an amount of energy to reach the receiver to restore the transmitted information; - Transmission of electric energy in the form of electromagnetic field, when the energy transfer efficiency is essential, the power being used to energize the receiving equipment. The second form of energy transfer is the subject of this book.

Scientific Information Notes 1960

Code Complete Steve McConnell 2004-06-09 Widely considered one of the best practical guides to programming, Steve McConnell's original CODE COMPLETE has been helping developers write better software for more than a decade. Now this classic book has been fully updated and revised with leading-edge practices—and hundreds of new code samples—illustrating the art and science of software construction.

Capturing the body of knowledge available from research, academia, and everyday commercial practice, McConnell synthesizes the most effective techniques and must-know principles into clear, pragmatic guidance. No matter what your experience level, development environment, or project size, this book will inform and stimulate your thinking—and help you build the highest quality code. Discover the timeless techniques and strategies that help you: Design for minimum complexity and maximum creativity Reap the benefits of collaborative development Apply defensive

programming techniques to reduce and flush out errors Exploit opportunities to refactor—or evolve—code, and do it safely Use construction practices that are right-weight for your project Debug problems quickly and effectively Resolve critical construction issues early and correctly Build quality into the beginning, middle, and end of your project

Handbook of Road Technology M. G. Lay 2009-06-11 This fully revised fourth edition of Max Lay's well-established reference work covers all aspects of the technology of roads and road transport, and urban and rural road technology. It forms a comprehensive but accessible reference for all professionals and students interested in roads, road transport and the wide range of disciplines involved with

Introduction to Fluid Mechanics Russell W. Henke 1966

Electronic Devices and Circuits Jacob Millman 1988

Introduction to Data Communications and Networking Behrouz A.

Forouzan 1998 This is a thorough introduction to the concepts underlying networking technology, from physical carrier media to protocol suites (for example, TCP/IP). The author includes historical material to show the logic behind the development of a given mechanism, and also includes comprehensive discussions of increasingly important material, such as B-ISDN (Broadband Integrated Services Digital Network) and ATM (Asynchronous Transmission Mode).

Advances in Distributed Computing and Machine Learning Jyoti Prakash Sahoo 2021 This book presents recent advances in the field of scalable distributed computing including state-of-the-art research in the field of Cloud Computing, the Internet of Things (IoT), and Blockchain in distributed environments along with applications and findings in broad areas including Data Analytics, AI, and Machine Learning to address complex real-world problems. It features selected high-quality research papers from the 2nd International Conference on Advances in Distributed Computing and Machine Learning (ICADCML 2021), organized by the Department of Computer Science and Information Technology, Institute of Technical Education and Research(ITER), Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India.

Communication Systems Marcelo S. Alencar 2022-12-03 Presents main concepts of mobile communication systems, both analog and digital Introduces concepts of probability, random variables and stochastic processes and their applications to the analysis of linear systems Includes five appendices covering Fourier series and transforms, GSM cellular systems and more

Principles of Electronic Communication Systems David L. Heiserman 2004-01-01 "Principles of Electronic Communication Systems" is an introductory course in communication electronics for students with a

background in basic electronics. The program provides students with the current, state-of-the-art electronics techniques used in all modern forms of electronic communications, including radio, television, telephones, facsimiles, cell phones, satellites, LAN systems, digital transmission, and microwave communications. The text is readable with easy-to-understand line drawings and color photographs. The up-to-date content includes a new chapter on wireless communications systems. Various aspects of troubleshooting are discussed throughout..

Proceedings of 3rd International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication

Anuradha Tomar 2022-09-17 This book gathers selected papers presented at International Conference on Machine Learning, Advances in Computing, Renewable Energy and Communication (MARC 2021), held in Krishna Engineering College, Ghaziabad, India, during 10 – 11 December, 2021. This book discusses key concepts, challenges and potential solutions in connection with established and emerging topics in advanced computing, renewable energy and network communications.

COMPUTER FUNDAMENTALS (SEMESTER - 1). P. K. SINGH 2015

Embedded System Design Frank Vahid 2001-10-17 This book introduces a modern approach to embedded system design, presenting software design and hardware design in a unified manner. It covers trends and

challenges, introduces the design and use of single-purpose processors ("hardware") and general-purpose processors ("software"), describes memories and buses, illustrates hardware/software tradeoffs using a digital camera example, and discusses advanced computation models, controls systems, chip technologies, and modern design tools. For courses found in EE, CS and other engineering departments.

Fundamentals of Analogue and Digital Communication Systems Sunil

Bhooshan 2021-10-03 The book covers fundamentals and basics of engineering communication theory. It presents right mix of explanation of mathematics (theory) and explanation. The book discusses both analogue communication and digital communication in details. It covers the subject of 'classical' engineering communication starting from the very basics of the subject to the beginning of more advanced areas. It also covers all the basic mathematics which is required to read the text. It covers a two semester course as an undergraduate text and some topics in master's course as well.

Proceedings of the 2nd International Conference on Communication,

Devices and Computing Sumit Kundu 2019-12-16 This book gathers high-quality papers presented at the 2nd International Conference on Communication, Devices & Computing (ICCDC 2019), held at Haldia Institute of Technology from March 14–15, 2019. The papers are divided

into three main areas: communication technologies, electronics circuits & devices and computing. Written by students and researchers from around the world, they accurately reflect the global status quo.

Basic Electrical And Electronics Engineering I (For Wbut) Bhattacharya S. K. 2010-09

Recent Advances in Mechanical Engineering Premananda Pradhan 2022

This book presents select proceedings of the International Conference on Recent Advances in Mechanical Engineering Research and Development (ICRAMERD 21). It covers the latest research trends in various branches of mechanical engineering. The topics covered include materials engineering, industrial system engineering, manufacturing systems engineering, automotive engineering, thermal systems, smart composite materials, manufacturing processes, industrial automation, and energy system. The book will be a valuable reference for beginners, researchers, engineers, and industry professionals working in the various fields of mechanical engineering. .

Electronic Communication Systems George Kennedy 1984

A Textbook of Engineering Mathematics (For First Year ,Anna University)
N.P. Bali 2009

Principles of Digital Communication Robert G. Gallager 2008-02-28 The renowned communications theorist Robert Gallager brings his lucid writing

style to the study of the fundamental system aspects of digital communication for a one-semester course for graduate students. With the clarity and insight that have characterized his teaching and earlier textbooks, he develops a simple framework and then combines this with careful proofs to help the reader understand modern systems and simplified models in an intuitive yet precise way. A strong narrative and links between theory and practice reinforce this concise, practical presentation. The book begins with data compression for arbitrary sources. Gallager then describes how to modulate the resulting binary data for transmission over wires, cables, optical fibers, and wireless channels. Analysis and intuitive interpretations are developed for channel noise models, followed by coverage of the principles of detection, coding, and decoding. The various concepts covered are brought together in a description of wireless communication, using CDMA as a case study.

Proceedings of the Sixth International Conference on Management Science and Engineering Management Jiuping Xu 2012-09-27 Welcome to the proceedings of the Sixth International Conference on Management Science and Engineering Management (ICMSEM2012) held from November 11 to 14, 2012 at Quaid-i-Azam University, Islamabad, Pakistan and supported by Sichuan University (Chengdu, China), Quaid-i-Azam University (Islamabad, Pakistan) and The National Natural Science

Foundation of China. The International Conference on Management Science and Engineering Management is the annual conference organized by the International Society of Management Science and Engineering Management. The goals of the Conference are to foster international research collaborations in Management Science and Engineering Management as well as to provide a forum to present current research results. The papers are classified into 8 sections: Computer and Networks, Information Technology, Decision Support System, Industrial Engineering, Supply Chain Management, Project Management, Manufacturing and Ecological Engineering. The key issues of the sixth ICMSEM cover various areas in MSEM, such as Decision Support System, Computational Mathematics, Information Systems, Logistics and Supply Chain Management, Relationship Management, Scheduling and Control, Data Warehousing and Data Mining, Electronic Commerce, Neural Networks, Stochastic models and Simulation, Heuristics Algorithms, Risk Control, and Carbon Credits.

Analysis of Structures on Elastic Foundations Edward Tsodik 2012-07

Analysis of Structures on Elastic Foundations is a practical guide for structural and geotechnical engineers as well as graduate students working in foundation engineering. Included are detailed descriptions of practical methods of analysis of various foundations including simple

beams on elastic foundations as well as very complex foundations such as mat foundations supported on piles. Methods for fast and easy hand analysis in addition to methods for exact computer analysis are presented. Most of the methods are developed for three soil models: Winkler foundation, elastic half-spaces, and elastic layers. Numerous numerical examples illustrate the applications of these methods.

Principles of Electronics Colin David Simpson 1996 One of the most comprehensive, clearly written books on electronic technology, Simpson's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for

electronic engineering technicians and those involved in the electronic technology field.

Exam Survival Guide: Physical Chemistry Jochen Vogt 2017-02-24 A text- and exercise book for physical chemistry students! This book deals with the fundamental aspects of physical chemistry taught at the undergraduate level in chemistry and the engineering sciences in a compact and practice-oriented form. Numerous problems and detailed solutions offer the possibility of an in-depth reflection of topics like chemical thermodynamics and kinetics, atomic structure and spectroscopy. Every chapter starts with a recapitulation of important background information, before leading over to representative exercises and problems. Detailed descriptions systematically present and explain the solutions to the problems, so that readers can carefully check their own solutions and get clear-cut introductions on how to approach similar problems systematically. The book addresses students at the (upper) undergraduate level, as well as tutors and teachers. It is a rich source of exercises for exam preparation and can be used alongside classical textbooks. Furthermore it can serve teachers and tutors for the conception of their lessons. Its well-thought-through presentation, structure and design make the book appeal to everybody who wants to succeed with the physical chemistry lessons and exercises.

Recent Trends in Communication, Computing, and Electronics Ashish Khare 2018-12-06 This book presents select papers from the International Conference on Emerging Trends in Communication, Computing and Electronics (IC3E 2018). Covering the latest theories and methods in three related fields – electronics, communication and computing, it describes cutting-edge methods and applications in the areas of signal and image processing, cyber security, human-computer interaction, machine learning, electronic devices, nano-electronics, wireless sensor networks, antenna and wave propagation, and mobile communication. The contents of this book will be beneficial to students, researchers, and professionals working in the field of networks and communications.

Electronic Circuits - II R. J. Watts 1947

Innovations in Electronics and Communication Engineering H. S. Saini 2022 This book covers various streams of communication engineering like signal processing, VLSI design, embedded systems, wireless communications and electronics and communications in general. The book is a collection of best selected research papers presented at 9th International Conference on Innovations in Electronics and Communication Engineering at Guru Nanak Institutions Hyderabad, India. The book presents works from researchers, technocrats and experts about latest technologies in electronic and communication engineering. The authors

have discussed the latest cutting edge technology, and the book will serve as a reference for young researchers.

Structural Analysis, SI Edition Aslam Kassimali 2014-08-01 Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A Beginner's Guide to R Alain Zuur 2009-06-24 Based on their extensive experience with teaching R and statistics to applied scientists, the authors provide a beginner's guide to R. To avoid the difficulty of teaching R and statistics at the same time, statistical methods are kept to a minimum. The text covers how to download and install R, import and manage data, elementary plotting, an introduction to functions, advanced plotting, and common beginner mistakes. This book contains everything you need to know to get started with R.

Finite Element Method: Olek C. Zienkiewicz 2005-08 This is the key text and reference for engineers, researchers and senior students dealing with the analysis and modelling of structures - from large civil engineering projects such as dams, to aircraft structures, through to small engineered components. Covering small and large deformation behaviour of solids and structures, it is an essential book for engineers and mathematicians. The new edition is a complete solids and structures text and reference in its own right and forms part of the world-renowned Finite Element Method

series by Zienkiewicz and Taylor. New material in this edition includes separate coverage of solid continua and structural theories of rods, plates and shells; extended coverage of plasticity (isotropic and anisotropic); node-to-surface and 'mortar' method treatments; problems involving solids and rigid and pseudo-rigid bodies; and multi-scale modelling. * Dedicated coverage of solid and structural mechanics by world-renowned authors, Zienkiewicz and Taylor * New material including separate coverage of solid continua and structural theories of rods, plates and shells; extended coverage for small and finite deformation; elastic and inelastic material constitution; contact modelling; problems involving solids, rigid and discrete elements; and multi-scale modelling * Accompanied by online downloadable software

The International Journal of Applied Engineering Education 1990

Foundations for Radio Frequency Engineering Geyi Wen 2015-03-13 The book provides a comprehensive coverage of the fundamental topics in microwave engineering, antennas and wave propagation, and electromagnetic compatibility, including electromagnetic boundary value problems, waveguide theory, microwave resonators, antennas and wave propagation, microwave circuits, principles of electromagnetic compatibility designs, information theory and systems. Deals systematically with fundamental problems in radio frequency engineering, this important

volume provides an updated treatment of radio frequency theory and techniques. The book can be used as a one-semester course for senior and first-year graduate students or as a reference for radio frequency engineers and applied physicists. Contents: Solutions of Electromagnetic Field Problems Waveguides Microwave Resonators Microwave Circuits Antennas Propagation of Radio Waves Electromagnetic Compatibility Information Theory and Systems Readership: Academics, researchers, postgraduates and undergraduates in electrical & electronic engineering and applied physics. Keywords: Microwave Engineering; Antenna; Wave Propagation; Electromagnetic Compatibility

Electronic Circuits Mike Tooley 2019-11-07 Electronics explained in one volume, using both theoretical and practical applications. Mike Tooley provides all the information required to get to grips with the fundamentals of electronics, detailing the underpinning knowledge necessary to appreciate the operation of a wide range of electronic circuits, including amplifiers, logic circuits, power supplies and oscillators. The 5th edition includes an additional chapter showing how a wide range of useful

electronic applications can be developed in conjunction with the increasingly popular Arduino microcontroller, as well as a new section on batteries for use in electronic equipment and some additional/updated student assignments. The book's content is matched to the latest pre-degree level courses (from Level 2 up to, and including, Foundation Degree and HND), making this an invaluable reference text for all study levels, and its broad coverage is combined with practical case studies based in real-world engineering contexts. In addition, each chapter includes a practical investigation designed to reinforce learning and provide a basis for further practical work. A companion website at <http://www.key2electronics.com> offers the reader a set of spreadsheet design tools that can be used to simplify circuit calculations, as well as circuit models and templates that will enable virtual simulation of circuits in the book. These are accompanied by online self-test multiple choice questions for each chapter with automatic marking, to enable students to continually monitor their own progress and understanding. A bank of online questions for lecturers to set as assignments is also available.