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Semiconductor-Laser Fundamentals - Weng W. Chow 2013-03-09

This in-depth title discusses the underlying physics and operational principles of semiconductor lasers. It analyzes the optical and electronic properties of the semiconductor medium in detail, including quantum confinement and gain-engineering effects. The

text also includes recent developments in blue-emitting semiconductor lasers.

DIGITAL IMAGE PROCESSING AND APPLICATIONS - V. Chandra Shekhar Rao, Sunkari Venkatramulu & Dr. P. Sammual 2021-05-05

The influence and impact of digital images on modern society, science, technology and art are

tremendous. Image processing has become such a critical component in contemporary science and technology that many tasks would not be attempted without it. It is a truly interdisciplinary subject that draws from synergistic developments involving many disciplines and is used in medical imaging, microscopy, astronomy, computer vision, geology and many other fields. With a few exceptions, the topics of optical information processing and digital information processing are usually covered in different books, written by experts in one field or the other. It is rare that the two topics are both covered in the same volume. This book is an exception to this trend, and is notable in several different aspects, but especially in its breadth of coverage of both topics. It seems very appropriate to have both general topics covered in the same book, for optical processing systems (defined broadly) commonly include digital systems to drive the optical system and to post-process the data

(example: adaptive-optic systems), while digital processing systems most commonly operate on data that has been gathered by an optical system. As a consequence, sophisticated image-gathering and handling systems today include both types of technology, a merger that grows more complete as time progresses. Indeed, even consumer-oriented devices such as digital cameras are sophisticated systems with optical and digital parts. This is a text for use in a first practical course in image processing and analysis, for final-year undergraduate or first-year graduate students with a background in biomedical engineering, computer science, radiologic sciences or physics. Designed for readers who will become “end users” of digital image processing in the biomedical sciences, it emphasizes the conceptual framework and the effective use of image processing tools and uses mathematics as a tool, minimizing the advanced mathematical development of other textbooks.

India and the Challenge of Statelessness -

Sitharamam Kakarala 2014

Composite Materials - Kamal K. Kar

2016-10-14

Composite materials are used as substitutions of metals/traditional materials in aerospace, automotive, civil, mechanical and other industries. The present book collects the current knowledge and recent developments in the characterization and application of composite materials. To this purpose the volume describes the outstanding properties of this class of advanced material which recommend it for various industrial applications.

Computational Neuroscience Models of the Basal Ganglia - V. Srinivasa Chakravarthy

2018-03-21

The book is a compendium of the aforementioned subclass of models of Basal Ganglia, which presents some the key existent theories of Basal Ganglia function. The book presents computational models of basal ganglia-

related disorders, including Parkinson's disease, schizophrenia, and addiction. Importantly, it highlights the applications of understanding the role of the basal ganglia to treat neurological and psychiatric disorders. The purpose of the present book is to amend and expand on James Houk's book (MIT press; ASIN: B010BF4U9K) by providing a comprehensive overview on computational models of the basal ganglia. This book caters to researchers and academics from the area of computational cognitive neuroscience.

Learning to Live with the Bomb - Naeem

Salik 2017

This book is a history of the evolution of Pakistan's nuclear weapons management system, including its nuclear doctrine and the measures in place to secure and safeguard them. This work highlights the elements that went into the formulation of Pakistan's nuclear policy. The book's great significance lies in the fact that it tackles the little known subject of nuclear

learning most comprehensively in all its dimensions. With great clarity and balance, the author clearly highlights the discernible aspects of Pakistan's learning experience and establishes beyond doubt that Pakistan has learnt from crises events and has evolved into a responsible nuclear weapons state with effective command, control, and custodial arrangements in place.

Effect of Defense on Developing Economies - Emile Benoit 1971

Practical Finite Element Analysis - Nitin S. Gokhale 2008

Highlights of the book: Discussion about all the fields of Computer Aided Engineering, Finite Element Analysis Sharing of worldwide experience by more than 10 working professionals Emphasis on Practical usage and minimum mathematics Simple language, more than 1000 colour images International quality printing on specially imported paper Why this book has been written ... FEA is gaining

popularity day by day & is a sought after dream career for mechanical engineers. Enthusiastic engineers and managers who want to refresh or update the knowledge on FEA are encountered with volume of published books. Often professionals realize that they are not in touch with theoretical concepts as being pre-requisite and find it too mathematical and Hi-Fi. Many a times these books just end up being decoration in their book shelves ... All the authors of this book are from IITs & IISc and after joining the industry realized gap between university education and the practical FEA. Over the years they learned it via interaction with experts from international community, sharing experience with each other and hard route of trial & error method. The basic aim of this book is to share the knowledge & practices used in the industry with experienced and in particular beginners so as to reduce the learning curve & avoid reinvention of the cycle. Emphasis is on simple language, practical usage, minimum

mathematics & no pre-requisites. All basic concepts of engineering are included as & where it is required. It is hoped that this book would be helpful to beginners, experienced users, managers, group leaders and as additional reading material for university courses.

Toward Excellence in Education - 1975

Ecological Threat Report 2021 - Institute for Economics and Peace 2021-10-07

Materials and Mechanical Engineering - I. Rajendran 2009

In order to sustain the global competition, industries are constrained to develop their own strategies and technologies in the area of materials and their processing, newer and smarter manufacturing methods with quality built in the processes. This global competition is making all industries establish their own R & D centers to identify newer materials, design and analysis strategies, manufacturing methods,

strategies in producing lightweight, high speed and cost effective products. In this context, *Materials and Mechanical Engineering: Recent Trends* presents recent developments in the area of Newer Materials and Processing Techniques, Composite and Nano Materials, Machining and Machinability, Manufacturing Systems, Structural Analysis, Finite Element Analyses and Computational Fluid Dynamics, Product Design, Condition Monitoring, Bio-fuel, Green Building concepts, Thermal & Environmental Engineering aspects and Engineering Optimization. The depth and scope of the chapters in this book will provide useful solutions to a considerable number of problems faced by industries and will be a good reference source for researchers and industry personnel.

Handbook of Fly Ash - Kamal K. Kar
2021-11-07

The drive to develop more sustainable materials has made fly ash a valuable raw material in many different applications. Comprehensive and

authoritative, Handbook of Fly Ash highlights the latest research efforts to develop the properties of fly ash to maximum utility while safeguarding the environment. This book takes an interdisciplinary approach to the research into the classification and compositions of various types of fly ash, such as bottom ash and boiler slag, special classes of fly ash, and their sources around the globe. This is followed by a discussion of fly ash-reinforced composites, such as elastomer-based composites and metal matrix composites. This book also covers a wide range of applications of fly ash in cement, concrete, bricks and blocks, road construction, wastewater treatment, and scrubber sludge solidification. Highlights the recent developments in the utilization of fly ash including its preparation, functionalization, properties, and handling. Places a focus on a wide variety of fly ash applications including recent innovations, such as alkali-activated binder, polypropylene composite, and geopolymer concrete. Includes

comprehensive coverage of the characteristics of fly ash with a particular focus on health hazards if it is not properly disposed. Discusses fly ash-reinforced composites, such as polymer/elastomer-based composites and metal matrix composites.

Handbook of Nanocomposite Supercapacitor Materials II - Kamal K. Kar 2020-07-31

This book covers the performance aspects of nanocomposite supercapacitor materials based on transition metal oxides, activated carbon, carbon nanotubes, carbon nanofibers, graphene and conducting polymers. It compares the performance of simple electrode materials versus binary and ternary composites, while highlighting the advantages and challenges of different supercapacitor electrode materials. This book is part of the Handbook of Nanocomposite Supercapacitor Materials. Supercapacitors have emerged as promising devices for electrochemical energy storage, playing an important role in energy harvesting

for meeting the current demands of increasing global energy consumption. The handbook covers the materials science and engineering of nanocomposite supercapacitors, ranging from their general characteristics and performance to materials selection, design and construction. Covering both fundamentals and recent developments, this handbook serves a readership encompassing students, professionals and researchers throughout academia and industry, particularly in the fields of materials chemistry, electrochemistry, and energy storage and conversion. It is ideal as a reference work and primary resource for any introductory senior-level undergraduate or beginning graduate course covering supercapacitors.

Higher Education and Professional Ethics - Satya Sundar Sethy 2018-03-28

This book discusses the significance, relevance, and usefulness of professional ethics in the context of higher education. It highlights the pivotal role of professional ethics in offering

teachers a better understanding of their responsibilities, duties, rights, and institutional obligations as they work to provide quality education. The volume investigates the connection between the adoption of professional ethics by individual faculty members in higher education and the development of work cultures in higher educational institutions. It explores the requisite modifications of the Teachers' Code of Ethics in relation to the usage of Information and Communication Technologies (ICTs) in teaching-learning platforms. While examining the validity, reliability, and application of professional ethics in the higher education sector, the book also illustrates the application of codes of ethics to resolve conflicting interests and commitments. This book will be useful to scholars and researchers in higher education, the philosophy of education, applied ethics, public policy, and the social sciences.

Encyclopedia of Polymers and Composites - Sanjay Palsule 2021-01-14

The Encyclopedia of Polymers and Composites provides all details of Polymeric Materials Science and Technology including historical developments, present status, and future potential. In 15 volumes, the Encyclopedia of Polymers and Composites covers: polymeric materials, engineering polymer blends, particulate and fibrous polymeric composite materials, that are the key materials for technology in the 21st Century. Fundamentals of structure of these materials are presented. Properties and effects of various parameters, like time and temperature on them are explained. Testing and Characterization of these materials as per global standard for various applications is presented. Individual polymers, blends, and composites are described, and several representative examples are also provided. The Encyclopedia also provides directions for future developments. It is organized in alphabetical order.

Simulation for Industry 4.0 - Murat M. Gunal

2019-05-25

The book shows how simulation's long history and close ties to industry since the third industrial revolution have led to its growing importance in Industry 4.0. The book emphasises the role of simulation in the new industrial revolution, and its application as a key aspect of making Industry 4.0 a reality - and thus achieving the complete digitisation of manufacturing and business. It presents various perspectives on simulation and demonstrates its applications, from augmented or virtual reality to process engineering, and from quantum computing to intelligent management. Simulation for Industry 4.0 is a guide and milestone for the simulation community, as well as those readers working to achieve the goals of Industry 4.0. The connections between simulation and Industry 4.0 drawn here will be of interest not only to beginners, but also to practitioners and researchers as a point of departure in the subject, and as a guide for new

lines of study.

Plant Operator Selection System Secrets - Poss
Exam Secrets Test Prep Team 2014-03-31

Includes Practice Test Questions Plant
Operator Selection System Secrets helps you ace
the Plant Operator Selection System without
weeks and months of endless studying. Our
comprehensive Plant Operator Selection System
Secrets study guide is written by our exam
experts, who painstakingly researched every
topic and concept that you need to know to ace
your test. Our original research reveals specific
weaknesses that you can exploit to increase your
exam score more than you've ever imagined.
Plant Operator Selection System Secrets
includes: The 5 Secret Keys to POSS Exam
Success: Time is Your Greatest Enemy, Guessing
is Not Guesswork, Practice Smarter, Not
Harder, Prepare, Don't Procrastinate, Test
Yourself; A comprehensive General Strategy
review including: Make Predictions, Answer the
Question, Benchmark, Valid Information, Avoid

Fact Traps, Milk the Question, The Trap of
Familiarity, Eliminate Answers, Tough
Questions, Brainstorm, Read Carefully, Face
Value, Prefixes, Hedge Phrases, Switchback
Words, New Information, Time Management,
Contextual Clues, Don't Panic, Pace Yourself,
Answer Selection, Check Your Work, Beware of
Directly Quoted Answers, Slang, Extreme
Statements, Answer Choice Families; A
comprehensive Content review including: Power
Plant Operator, Specialized Training, Solve
Problems, Adjustments, Electrical Power Station,
Logs of Performance and Maintenance,
Production, Safe Working Conditions,
Emergency Situations, Water Treatment Plant,
Test Results, Independent Contractor,
Mechanical Concepts, Tables and Graphs,
Reading Comprehension, Mathematical Usage,
Index Score, Good Night's Sleep, Complete and
Balanced Breakfast, Drink Plenty of Water,
Practice Exercises, Assembly Questions, Double-
Check Your Work, Jigsaw Puzzles, Electronics

Equipment, Spatial Intelligence, Manipulate Three-Dimensional Objects, Mechanical Concepts, Basics of Physics, Velocity of an Object, Speed, Acceleration, and much more...
GATE in Mechanical Engineering - 2001

Recent Trends in Engineering and Technology (NCRTE-2017) - Bijoy Kumar Upadhyaya 2018-03-05

After successful organization of the "National Seminar on Energy Science and Engineering, 2013 (NSESE-2013)" during November, 2013, Tripura Institute of Technology, Narsingarh, Tripura (West) has organized the second "National Conference on Recent Trends in Engineering and Technology, 2017 (NCRTE-2017)" during March 17-18, 2017. The seminar aimed to provide an opportunity for academicians and researchers in India to discuss the divergent issues related to recent trends in engineering and technology covering all aspects on one platform so as to critically examine the

ongoing/current research and derive directions for future research strategies and policy implications. As a mark of remembrance, a souvenir was published on this occasion. The conference has received enormous response in the form of technical papers and research contributions from various authors across the country. In total, 55 numbers of technical papers related to different engineering domain were accepted for oral presentation. Four invited papers from renowned faculty members of our country were also presented on the occasion. We are also happy to keep our commitment of publishing a conference proceeding with ISBN through a prestigious publisher having all accepted full length papers.

Mass Metrology - S. V. Gupta 2012-01-26
This book presents the practical aspects of mass measurements. Concepts of gravitational, inertial and conventional mass and details of the variation of acceleration of gravity are described. The Metric Convention and

International Prototype Kilogram and BIPM standards are described. The effect of change of gravity on the indication of electronic balances is derived with respect of latitude, altitude and earth topography. The classification of weights by OIML is discussed. Maximum permissible errors in different categories of weights prescribed by national and international organizations are presented. Starting with the necessity of redefining the unit kilogram in terms of physical constants, various methods of defining the kilogram in terms of physical constants are described. The kilogram can be defined by Avogadro's constant, ion collection of some heavy elements, levitation, voltage and Watt Balance. The detection of very small mass of the order of zeptogram through Nanotechnology is also discussed. Latest recommendations of CIPM are given.

Control, Computation and Information Systems - P. Balasubramaniam 2011-02-04

This book constitutes the refereed proceedings

of the International Conference on Logic, Information, Control and Computation, ICLICC 2011, held in Gandhigram, India, in February 2011. The 52 revised full papers presented were carefully reviewed and selected from 278 submissions. The papers are organized in topical sections on control theory and its real time applications, computational mathematics and its application to various fields, and information sciences focusing on image processing and neural networks.

An Introduction to Process Modelling Identification and Control for Engineers -

Rames C. Panda 2017

Who's Who in Science and Engineering

2008-2009 - Marquis Who's Who, Inc. 2007-12

High Performance Polymers and

Composites - Jacqueline I. Kroschwitz

1991-03-21

In addition to enumerating nearly every high

performance polymeric material available, it provides detailed information on their methods of manufacture, properties and uses. Includes coverage of the newest materials for composites, a wealth of physical and mechanical data, and standards and specifications of each material. Alphabetical organization, extensive cross references, and a complete index further enhance its utility. Twenty main entries have been prepared by leading authorities from industry, academia, and research institutes. The contents will be of interest to those engaged in the manufacture and use of modern, lightweight, tough materials for use in consumer goods, transportation, aerospace, communications and related industrial activities.

I.C. Engines And Combustion -

2019 3rd International Conference on Electronics, Communication and Aerospace Technology (ICECA) - IEEE Staff 2019-06-12
ICECA 2019 will provide an outstanding

international forum for scientists from all over the world to share ideas and achievements in the theory and practice of all areas of aero space technologies Presentations should highlight inventive systems as a concept that combines theoretical research and applications in Electronics, Communication, Information and Aerospace technologies

Laser in Bioscience, Industry, and Defence -
Narain Mansharamani 2012

Microwave Integrated Circuits - I. Kneppo
1993-12-31

Microwave Integrated Circuits provides a comprehensive overview of analysis and design methods for integrated circuits and devices in microwave systems. Passive and active devices, and linear and non-linear circuits are covered with a final chapter detailing measurement and test techniques.

Guide to Patents, Industrial Design, Trade Marks, Copyrights, Confidential

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Information, Know-how, Industrial & Trade Secrets, Geographical Indications of Goods, Protection of Plant Varieties & Farmer's Rights, Information Technology, Semiconductor Integrated Circuits Layout-design - Parameswaran Narayanan 2015

Trade Liberalization in Bangladesh - Nasiruddin Ahmed 2001

Micro and Smart Devices and Systems - K. J. Vinoy 2014-05-21

The book presents cutting-edge research in the emerging fields of micro, nano and smart devices and systems from experts working in these fields over the last decade. Most of the contributors have built devices or systems or developed processes or algorithms in these areas. The book is a unique collection of chapters from different areas with a common theme and is immensely useful to academic researchers and practitioners in the industry

who work in this field.

Fan Handbook: Selection, Application, and Design - Frank P. Bleier 1998

This handbook covers the design, selection, maintenance and repair of fans used in a wide range of applications and industries. Bleier gives information on ventilation aspects as well as on codes, standards and specifications.

Frontiers in Optics and Photonics - Federico Capasso 2021-06-08

This book provides a cutting-edge research overview on the latest developments in the field of Optics and Photonics. All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics, Optical properties of 2D Materials, Optical Sensors, Organic Opto-electronics, Nanophotonics, Metamaterials, Plasmonics, Quantum Cascade lasers, LEDs, Biophotonics and biomedical photonics and spectroscopy.

Carbon Nanotubes: Synthesis, Characterization and Applications - Kamal K.

Kar 2011

Handbook of Nanocomposite Supercapacitor Materials III - Kamal K. Kar 2021-05-27

This book covers the selection of nanocomposite supercapacitor materials. It describes the most important criteria behind the selection of materials for the electrode, electrolytes, separator and current collectors, which comprise the key components of supercapacitors for advanced energy storage. It discusses the influence on each material on the unique electrochemical properties of nanocomposite supercapacitors with respect to their energy storage mechanism and stability under extreme and unpredictable conditions. This book is part of the Handbook of Nanocomposite Supercapacitor Materials. Supercapacitors have emerged as promising devices for electrochemical energy storage, playing an important role in energy harvesting for meeting the current demands of increasing global energy

consumption. The handbook covers the materials science and engineering of nanocomposite supercapacitors, ranging from their general characteristics and performance to materials selection, design and construction. Covering both fundamentals and recent developments, this handbook serves a readership encompassing students, professionals and researchers throughout academia and industry, particularly in the fields of materials chemistry, electrochemistry, and energy storage and conversion. It is ideal as a reference work and primary resource for any introductory senior-level undergraduate or beginning graduate course covering supercapacitors.

Handbook of Nanocomposite Supercapacitor Materials I - Kamal K. Kar 2020-04-16

This book delivers a comprehensive overview of the characteristics of several types of materials that are widely used in the current era of supercapacitors; namely, architected carbon materials, transition metal oxides and

conducting polymers. It provides readers with a complete introduction to the fundamentals of supercapacitors, including the development of new electrolytes and electrodes, while highlighting the advantages, challenges, applications and future of these materials. This book is part of the Handbook of Nanocomposite Supercapacitor Materials. Supercapacitors have emerged as promising devices for electrochemical energy storage, playing an important role in energy harvesting for meeting the current demands of increasing global energy consumption. The handbook covers the materials science and engineering of nanocomposite supercapacitors, ranging from their general characteristics and performance to materials selection, design and construction. Covering both fundamentals and recent developments, this handbook serves a readership encompassing students, professionals and researchers throughout academia and industry, particularly in the fields of materials chemistry,

electrochemistry, and energy storage and conversion. It is ideal as a reference work and primary resource for any introductory senior-level undergraduate or beginning graduate course covering supercapacitors.

Computational Bioengineering - Guigen Zhang
2015-04-01

Arguably the first book of its kind, Computational Bioengineering explores the power of multidisciplinary computer modeling in bioengineering. Written by experts, the book examines the interplay of multiple governing principles underlying common biomedical devices and problems, bolstered by case studies. It shows you how to take advantage of the la *Electronic System Level Design* - Sandro Rigo
2011-04-28

Electronic System Level Design: an Open-Source Approach is based on the successful experience acquired with the conception of the ADL ArchC, the development of its underlying tool suite, and the building of its platform modeling

infrastructure. With more than 10000 accesses per year since 2004, the dissemination of ArchC models reached not only students in quest of proper infrastructure to develop their research projects but also some companies in need of processor models to build virtual platforms using SystemC. The need to anticipate the development of hardware-dependent software and to build virtual prototypes gave rise to Transaction Level Modeling (TLM). Since SystemC provided the elements and the adequate abstraction level for supporting TLM, their relation has grown so strong that OSCI created a TLM Working Group whose effort resulted in the recently released TLM 2.0 standard, which is also covered in this book.

Department of Posts - Rph Editorial Board
2020-10

The present book is specially published for the aspirants of 'Department of Posts - Multi-Tasking Staff (MTS)' Recruitment Exam. The book comprises, along with the Latest Study and

Practice Material, Previous Years' Solved Papers to make you well conversant with the exam pattern and the type of questions asked with their answers. The book contains adequate Study and Practice Material with numerous Multiple Choice Question-Answers on all the relevant subjects important from the point of view of examination. Both the Study and Practice Material have been prepared by respective subject-experts with due diligence. Detailed Explanatory Answers have also been provided for the Selected Questions for Better Understanding of readers. Based on the Current Pattern of exam, the book will prove very useful for study, practice and during the precious moments before the exam for reference and revision. It is highly recommended to Sharpen your Problem Solving Skills with thorough practice of numerous questions provided in the book, and prepare yourself to face the exam with Confidence, Successfully.

Defense Modeling, Simulation, and Analysis -

National Research Council 2006-09-22
Modeling, simulation, and analysis (MS&A) is a crucial tool for military affairs. MS&A is one of the announced pillars of a strategy for transforming the U.S. military. Yet changes in the enterprise of MS&A have not kept pace with the new demands arising from rapid changes in DOD processes and missions or with the rapid changes in the technology available to meet those demands. To help address those concerns, DOD asked the NRC to identify shortcomings in current practice of MS&A and suggest where

and how they should be resolved. This report provides an assessment of the changing mission of DOD and environment in which it must operate, an identification of high-level opportunities for MS&A research to address the expanded mission, approaches for improving the interface between MS&A practitioners and decision makers, a discussion of training and continuing education of MS&A practitioners, and an examination of the need for coordinated military science research to support MS&A.