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A Textbook Of Engineering Physics (As Per Vtu Syllabus) -S.O. Pillai 2007-01-01
Morphogenetic Engineering -René Doursat 2012-12-13 Generally, spontaneous pattern formation phenomena are random and repetitive, whereas elaborate devices are the deterministic product of human design. Yet, biological organisms and collective insect constructions are exceptional examples of complex systems that are both self-organized and architectural. This book is the first initiative of its kind toward establishing a new field of research, Morphogenetic Engineering, to explore the modeling and implementation of “self-architecturing” systems. Particular emphasis is placed on the programmability and computational abilities of self-organization, properties that are often underappreciated in complex systems science—while, conversely, the benefits of self-organization are often underappreciated in engineering methodologies. Altogether, the aim of this work is to provide a framework for and examples of a larger class of “self-architecturing” systems, while addressing fundamental questions such as br” How do biological organisms carry out morphogenetic tasks so reliably? br” Can we extrapolate their self-formation capabilities to engineered systems?br” Can physical systems be endowed with information (or informational systems be embedded in physics) so as to create autonomous morphologies and functions?br” What are the core principles and best practices for the design and engineering of such morphogenetic systems?
Foundations of Analog and Digital Electronic Circuits -Anant Agarwal 2005-07-01 Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of “abstraction,” the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.
Engineering Management -A K Gupta 2014-10 Suitable for engineering and management courses, this book intends to develop an understanding of the basic management concepts required in different engineering disciplines, and meets the specific requirements of students pursuing B Tech/M Tech courses and MBA, Post graduate Diploma in Management/Engineering Management.
Fundamentals of Electrical Engineering -Leonard S. Bobrow 1996 Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.
Aerodynamics of Wings and Bodies -Holt Ashley 1965-01-01 This excellent, innovative reference offers a wealth of useful information and a solid background in the fundamentals of aerodynamics. Fluid mechanics, constant density inviscid flow, singular perturbation problems, viscosity, thin-wing and slender body theories, drag minimalization, and other essentials are addressed in a lively, literate manner and accompanied by diagrams.
Proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing -Nitin Afzalpulkar 2016-04-28 This volume comprises the proceedings of the International Conference on Recent Cognizance in Wireless Communication & Image Processing. It brings together content from academicians, researchers, and industry experts in areas of Wireless Communication and Image Processing. The volume provides a snapshot of current progress in computational creativity and a glimpse of future possibilities. The proceedings include two kinds of paper submissions: (i) regular papers addressing foundation issues, describing original research on creative systems development and modeling; and (ii) position papers describing work-in-progress or research directions for computational creativity. This work will be useful to professionals and researchers working in the core areas of wireless communications and image processing.
Recent Trends in Materials and Devices -Vinod Kumar Jain 2016-10-20 This book presents the proceedings of the International Conference on Recent Trends in Materials and Devices, which was conceived as a major contribution to large-scale efforts to foster Indian research and development in the field in close collaboration with the community of non-resident Indian researchers from all over the world. The research articles collected in this volume - selected from among the submissions for their intrinsic quality and originality, as well as for their potential value for further collaborations - document and report on a wide range of recent and significant results for various applications and scientific developments in the areas of Materials and Devices. The technical sessions covered include photovoltaics and energy storage, semiconductor materials and devices, sensors, smart and polymeric materials, optoelectronics, nanotechnology and nanomaterials, MEMS and NEMS, as well as emerging technologies.
Basic Aspects of the Quantum Theory of Solids -Daniel I. Khomskii 2010-09-02 Aimed at graduate students and researchers, this book covers the key aspects of the modern quantum theory of solids, including up-to-date ideas such as quantum fluctuations and strong electron correlations. It presents in the main concepts of the modern quantum theory of solids, as well as a general description of the essential theoretical methods required when working with these systems. Diverse topics such as general theory of phase transitions, harmonic and anharmonic lattices, Bose condensation and superfluidity, modern aspects of magnetism including resonating valence bonds, electrons in metals, and strong electron correlations are treated using unifying concepts of order and elementary excitations. The main theoretical tools used to treat these problems are introduced and explained in a simple way, and their applications are demonstrated through concrete examples.
Engineering Physics (Annual Pattern) -GAUR R K 1992
Cracks and Fracture -K. Bertram Broberg 1999-02-24 Cracks and Fracture consists of nine chapters in logical sequence. In two introductory chapters, physical processes in the vicinity of the crack edge are discussed and the fracture process is described. Chapter 3 develops general basic concepts and relations in crack mechanics, such as path independent integrals, stress intensity factors and energy flux into the crack edge region. Chapters 4-7 deal with elastostatic cracks, stationary or slowly moving elastic-plastic cracks, elastodynamic crack mechanics and elastoplastic aspects of fracture, including dynamic fracture mechanics. Appendices include general formulae, the basic theory of analytic functions, introduction to Laplace and Hankel transforms and description of certain basic relations, for instance for stress waves in solids. There is an extensive bibliography, containing references to both classical and recent work, and a comprehensive index. Presents an extensive bibliography containing references to both classical and recent works and a comprehensive index Appendices include general formulas, the basic theory of analytic functions, introduction to Laplace and Hankel transforms, and descriptions of certain basic relations, for instance for stress waves in solids
Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012) -Jagdish C. Bansal 2012-12-04 The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of “Computational Intelligence”. The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.
Nanomaterials and Their Applications -Zishan Husain Khan 2017-10-20 This book focuses on the latest advances in the field of nanomaterials and their applications, and provides a comprehensive overview of the state-of-the-art of research in this rapidly developing field. The book comprises chapters exploring various aspects of nanomaterials. Given the depth and breadth of coverage, the book offers a valuable guide for researchers and students working in the area of nanomaterials.
Physics for Engineers -M. R. Srinivasan 2009-01-01
Water, Climate Change, and Sustainability -Vishnu Prasad Pandey 2021-03-11 An in-depth review of sustainable concepts in water resources management under climate change Climate change continues to intensify existing pressures in water resources management, such as rapid population growth, land use changes, pollution, damming of rivers, and many others. Securing a reliable water supply—critical for achieving Sustainable Development Goals (SDGs)—requires understanding of the relation between finite water resources, climate variability/change, and various elements of sustainability. Water, Climate Change, and Sustainability is a timely and in-depth examination of the concept of sustainability as it relates to water resources management in the context of climate change risks. Featuring contributions by global authors, this edited volume is organized into three sections: Sustainability Concepts; Sustainability Approaches, Tools, and Techniques; and Sustainability in Practice. Detailed chapters describe the linkage between water and sustainable development, highlight the development and use of new measuring and reporting methods, and discuss the implementation of sustainability concepts in various water use sectors. Topics include localizing and mainstreaming global water sustainability initiatives, resilient water infrastructure for poverty reduction, urban water security for sustainable cities, climate actions and challenges for sustainable ecosystem services, and more. This important resource: Reviews contemporary scientific research and practical applications in the areas of water, climate change and sustainability in different regions of the world Discusses future directions of research and practices in relation to expected patterns of climate changes Covers a wide range of concepts, theories, and perspectives of sustainable development of water resources Features case studies of field and modelling techniques for analyzing water resources and evaluating vulnerability, security, and associated risks Discusses practical applications of water resources in contexts such as food security, global health, clean energy, and climate action Water, Climate Change, and Sustainability is an invaluable resource for policy makers water managers, researchers, and other professionals in the field, and an ideal text for graduate students in hydrogeology, climate change, geophysics, geochemistry, geography, water resources, and environmental science.
RNAi Technology -R. K. Gaur 2016-04-19 RNAi technology is used for large-scale screens that systematically shut down each gene in the cell, which can help identify the components necessary for a particular cellular process or an event such as cell division. Exploitation of the pathway is also a promising tool in biotechnology and medicine. Introducing new technology in the study of RNA
Antenna and Wave Propagation - 2013
Computational Materials Science -Wofram Hergert 2004-04-29 Computational Physics is now a discipline in its own right, comparable with theoretical and experimental physics. Computational Materials Science concentrates on the calculation of materials properties starting from microscopic theories. It has become a powerful tool in industrial research for designing new materials, modifying materials properties and optimizing chemical processes. This book focusses on the application of computational methods in new fields of research, such as nanotechnology, spintronics and photonics, which will provide the foundation for important technological advances in the future. Methods such as electronic structure calculations, molecular dynamics simulations and beyond are presented, the discussion extending from the basics to the latest applications.
Strategic Decision Making -Navneet Bhushan 2007-05-28 Strategic Decision Making provides an effective, formal methodology that provides help with decision making problems, especially strategic ones with high stakes involving human perceptions and judgements. Focusing on applying the AHP to decision-making problems, Strategic Decision Making covers problems in the realms of business, defence and governance. Using case studies drawn from years of experience, the book discusses decision making for real life problems and includes many worked examples and solutions to problems throughout. The reader will gain comprehensive exposure to the extent of assistance that a formal methodology, such as AHP, can provide to the decision maker in evolving decisions in complex and varied domains.
The Physics of Semiconductor Devices -R. K. Sharma 2019-01-31 This book disseminates the current knowledge of semiconductor physics and its applications across the scientific community. It is based on a biennial workshop that provides

the participating research groups with a stimulating platform for interaction and collaboration with colleagues from the same scientific community. The book discusses the latest developments in the field of III-nitrides; materials & devices, compound semiconductors, VLSI technology, optoelectronics, sensors, photovoltaics, crystal growth, epitaxy and characterization, graphene and other 2D materials and organic semiconductors.

Advances in Organic Synthesis-Atta-ur-Rahman 2013-01-10 Advances in Organic Synthesis is a book series devoted to the latest advances in synthetic approaches towards challenging structures. It presents comprehensive articles written by eminent authorities on different synthetic approaches to selected target molecules and new methods developed to achieve specific synthetic transformations. Contributions are written by eminent scientists and each volume is edited by an authority in the field. Advances in Organic Synthesis is essential for all organic chemists in the academia and industry who wish to keep abreast of rapid and important developments in the field.

Modern Engineering Physics-A S Vasudeva 2012-07 The book in its present form is due to my interaction with the students for quite a long time.It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level.Many students,although able to understand the various topics of the books,may not be able to put their knowledge to use.For this purpose a number of questions and problems are given at the end of each chapter.

(FREE SAMPLE) Objective NCERT Xtract Physics for NEET-JEE Main, Class 11-12, AIIMS, BITSAT, JIPMER, JEE Advanced 4th Edition-Disha Experts

A Textbook of Engineering Physics (Orissa)-A S Vasudeva 2008 Volume I: Simple Harmonic Motion | Wave Motion| Interference | Diffraction | Polarization | Scalar And Vector Fields | Electromagnetism | Maxwell’S Equation| Spectroscopy | Matter Waves And Uncertainty Principle| Particle Properties Of Radiation | Quantum Mechanics|VolumeII: Particle Accelerators | Radioactivity| Crystal Structure | Band Theory Of Solids | Metals, Insulators And Semiconductors | Super-Conductivity| Lasers | Fibre Optics

Ohmic Heating in Food Processing-Hosahalli S. Ramaswamy 2014-02-14 Ohmic heating provides rapid and uniform heating, resulting in less thermal damage than conventional heating and allowing manufacturers to obtain high-quality products with minimum sensorial, nutritional, and structural changes. Ohmic Heating in Food Processing covers several aspects of Ohmic heating: science and engineering, chemistry and physics, biochemistry and nutrition, quality and safety, and development and technology, both basic and applied. It describes the importance of Ohmic technology and how to implement it in practice, addressing basic theory, principles, and applications. Divided into nine sections, this volume covers the basics of Ohmic heating, including a historic overview and fundamental principles; electrical conductivity, its importance, factors that influence it, and data modeling; biological effects of electricity on foods and food components, including microorganisms, enzymes, proteins, carbohydrates, and fats; and Ohmic heating behavior and design parameters. The book also deals with issues in Ohmic heating equipment, Ohmic heating modeling issues, and process validation issues. The authors discuss various applications of Ohmic heating applied to different classes of foods, such as muscle foods (meat, poultry, and fish), dairy products, fruits, and vegetables. They also examine commercially successful applications of food products processed by Ohmic heating and considers applications of Ohmic heating where preservation is not the main focus, for example, blanching, Ohmic thawing, and the potential for Ohmic heating for long-duration space missions.

Applied Physics for Engineers-Mehta Neeraj 2011-07-30 This book is intended as a textbook for the first-year undergraduate engineering students of all disciplines. The text, written in a student-friendly manner, covers a wide range of topics of engineering interest both from the domains of applied and modern physics. It is meticulously tailored to cover the syllabi needs of almost all the Indian universities and institutes. With its exhaustive treatment of different topics in one volume, it relieves the engineering students of the arduous task of referring to several books. Besides engineering students, this book will be equally useful to the BSc (Physics) students of different universities. KEY FEATURES Simple and clear diagrams throughout the book help students in understanding the concepts clearly. Numerous in-chapter solved problems, chapter-end unsolved problems (with answers) and review questions assist students in assimilating the theory comprehensively. A large number of objective type questions at the end of each chapter help students in testing their knowledge of the theory.

Multifunctional Nanocarriers for Contemporary Healthcare Applications-Barkat, Md. Abul 2018-01-12 Advances in technology permeates every aspect of life, including the healthcare system. Nanotechnology based systems have gained popularity based upon their promise, size, and other characteristics. Multifunctional Nanocarriers for Contemporary Healthcare Applications is a critical academic publication that explores advancements in nanostructured systems, applications of these systems in healthcare, and biomedical applications of these systems. Featuring coverage on a wide range of topics, such as hydrogels, controlled drug delivery systems, and nanomedicine, this book is geared toward researchers, students, and academicians seeking current research on advancements and applications of nanostructured systems in the healthcare industry.

Radiochemistry and Nuclear Chemistry-Gregory R. Choppin 2002 Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties. This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCAD with variable quantities and options, hotlinks to relevant text sections from the book, and online self-grading texts. As in the previous edition, readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy (including energy production, fuel cycle, and waste management). New edition of a well-known, respected text in the specialized field of nuclear/radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

TARGET MHT-CET Online Engineering Test 2020 - Past (2019 - 2016) + 10 Mock Tests (7 in Book + 3 Online) 2nd Edition-Disha Experts 2019-09-06

Semiconductor Material and Device Characterization-Dieter K. Schroder 2006 Resistivity -- Carrier and doping density -- Contact resistance and Schottky barriers -- Series resistance, channel length and width, and threshold voltage -- Defects -- Oxide and interface trapped charges, oxide thickness -- Carrier lifetimes -- Mobility -- Charge-based and probe characterization -- Optical characterization -- Chemical and physical characterization -- Reliability and failure analysis.

A Textbook of Engineering Physics (Kerala)-A S Vasudeva 2008 Interference | Diffraction | Polarization | Lasers | Fibreoptics | Simple Harmonic Motion | Wave Motion| Ultrasonics And Acoustics | X-Rays | Electronicconfiguration | General Properties Of The Nucleus| Nuclear Models | Natural Radioactivity | Nuclearreactions And Artificial Radioactivity | Nuclear Fission Andfusion | Crystal Structure | Band Theory Of Solids| Metals, Insulators And Semiconductors | Magnetic Anddielectric Properties Of Materials | Maxwell’S Equations| Matter Waves And Uncertainty Principle | Quantumtheory | Super-Conductivity | Statistics And Distributionlaws| Scalar And Vector Fields

Principles of Engineering Physics 2-Md Nazoor Khan 2017-03-06 This textbook is a follow-up to the volume Principles of Engineering Physics 1 and aims for an introductory course in engineering physics. It provides a balance between theoretical concepts and their applications. Fundamental concepts of crystal structure including lattice directions and planes, atomic packing factor, diffraction by crystal, reciprocal lattics and intensity of diffracted beam are extensively discussed in the book. The book also covers topics related to superconductivity, optoelectronic devices, dielectric materials, semiconductors, electron theory of solids and energy bands in solids. The text is written in a logical and coherent manner for easy understanding by students. Emphasis has been given to an understanding of the basic concepts and their applications to a number of engineering problems. Each topic is discussed in detail both conceptually and mathematically, so that students will not face comprehension difficulties. Derivations and solved problems are provided in a step-by-step approach.

Biological Materials Science-Marc André Meyers 2014-07-31 Takes a materials science approach, correlating structure-property relationships with function across a broad range of biological materials.

B.Sc. Practical Physics-CL Arora 2001 B.Sc. Practical Physics

Composite Systems Decisions-Mark Sh. Levin 2007-05-30 Composite decisions are decisions consisting of interconnected parts (subdecisions) and they correspond to a composite (composable, modular, decomposable) system. The material will be of interest to scientists (e.g., mathematicians, computer scientists, economists, social engineers,etc.). The book can be used as a text for courses (for example: systems engineering, system design, life cycle engineering, engineering design, combinatorial synthesis) at the level of undergraduate (a compressed version), graduate/PhD levels and for continuing education.

Introduction to Computer Science-Gilbert Brands 2013-10-11 This textbook covers the content of a general introductory lecture in computer science held at a German University. The basic stuff for most special courses - circuit technology, programming, operating system, networking, security, and more - is presented along with some further background information not necessarily covered by other lectures, but helping to understand relationships and reasons why certain techniques are done in just that way. The learning process is supported by numerous exercises. 2nd edition with minor changes and clarifications. A forum is now available on http://www.gilbertbrands.de/smf/. Though the primary language of this site is German, feel free to post your comments in English.Dieses Lehrbuch deckt den Inhalt einer allgemeinen Einführungsveranstaltung in die Informatik ab. Die grundlegenden Dinge für die meisten spezielle Kurse - Schaltungstechnik, Programmierung, Betriebssysteme, Netzwerke, Sicherheit und vieles mehr - werden zusammen mit einigen weiteren Hintergründinformationen, die nicht unbedingt von anderen Vorlesungen abgedeckt werden, sondern dazu beitragen sollen, Beziehungen und Hintergründe, warum bestimmte Techniken in einer bestimmten Weise ausgeführt sind, verständlich dargestellt. Der Lernprozess wird durch zahlreiche Übungen unterstützt.Zweite Auflage mit kleinen Änderungen. Ein Forum ist unter http://www.gilbertbrands.de/smf/ für Fragen, Kommentare und Anregungen verfügbar.

Discovering Africa's Past-Basil Davidson 1978 Beskrivelse af de vigtigste perioder i Afrikas historie.

Intelligent Computing and Information and Communication-Subhash Bhalla 2018-01-19 The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems (ICICC 2017). The conference was held during 2–4 August 2017, Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.

Computer Vision-David A. Forsyth 2012 Appropriate for upper-division undergraduate and graduate level courses in computer vision found in departments of computer science, computer engineering and electrical engineering, this book offers a treatment of modern computer vision methods.

Pulp and Paper Processing-Salim Newaz Kazi 2018-10-03 This book gives emphasis to wood fiber raw materials, alternative sources of fibers for paper production, environmental issues, paper quality improvement and cost of paper production. Varieties of non-wood raw materials, including kenaf, rice straw, empty fruit bunches of palm trees, bamboo, bagasse, etc., are considered in this book. The process of fiber treatment also varied to meet paper quality improvement. Different organosolv processes of fiber treatment are discussed. Considering contemporary issues, one particular chapter analyzes the environmentally friendly way of processing non-wood fibers for paper production. The book also contains a chapter on the by-product raw materials of paper production and their profitable applications.

