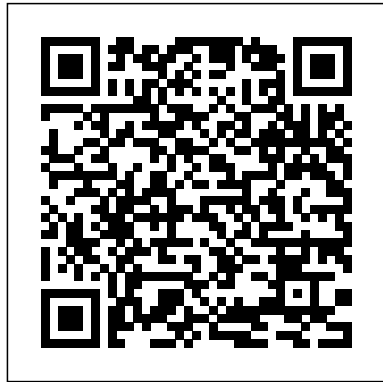


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Fundamental Concepts of Environmental Chemistry Springer Nature

This title includes a number of Open Access chapters. Considered the next industrial revolution, nanotechnology is an exciting field with new advances being reported regularly. It is a very diverse and highly interdisciplinary field, involving the science and engineering fields.

Nanotechnology deals with the smallest building blocks of matter and involves atomic and molecular level imaging, manipulating, and controlling of matters, which lead to the creation of new materials, new manufacturing processes, and new applications. This book covers many emerging and important issues in nanotechnology as it applies to cancer research and treatment, materials properties analysis, new materials, and much more.

A Textbook of Engineering Physics Pearson Education India
Engineering Physics is designed as a textbook for first year undergraduate engineering students. The book comprehensively covers all relevant and important topics in a simple and lucid manner. It explains the principles as well as the applications of a given topic using numerous solved examples and self-explanatory figures.

S Chand Higher Engineering Mathematics Tata McGraw-Hill Education

Aims of the Book: The foremost and primary aim of the book is to meet the requirements of students pursuing following courses of study: 1. Diploma in Electronics and Communication Engineering (ECE)-3-year course offered by various Indian and foreign polytechnics and technical institutes like City and Guilds of London Institute (CGLI). 2. B.E. (Elect. & Comm.)-4-year course offered by various Engineering Colleges. Efforts have been made to cover the papers: Electronics-I & II and Pulse and Digital Circuits. 3. B.Sc. (Elect.)-3-Year vocationalised course recently introduced by Approach.

A Textbook Of Engineering Physics (As Per Vtu Syllabus) S. Chand Publishing

Discussing the influence of environmental factors on both living and nonliving entities, this text places special emphasis on human health problems such as mutagenesis, teratogenesis and carcinogenesis, as well as looking at the major global issues of energy conservation, acid rain

and greenhouse gases.

Orbital Mechanics for Engineering Students S. Chand Publishing

The Seventh Edition Of This Book Is Thoroughly Revised And Enlarged And Is Specifically Tailored To Meet The Revised Syllabus, Offered In The First Year Of B.E./B.Tech. Of All The Branches In Various Engineering Colleges Affiliated To Anna University, Tamil Nadu. Salient Features:-

- * It Is User-Friendly With Step-By-Step Procedures.
- * Each Solved Problem Is Graded And Is Followed By Similar Exercise Problem For Students To Practice Confidently And Grasp The Fundamental Principles Much Easily.

- * Additional Problems Are Also Added In Each Chapter.
- * An Excellent Guide For An Average Student Highlighting The Important Points, Notes, Rules, Hints, To Remember, Etc.
- * Illustrated With 800 Solved University Problems With Illustrations, It Is Examination Oriented.

Cumulative listing MJP Publisher

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It should.

Energy Storage Devices Elsevier

The great breakthroughs in the science and technology of superconducting and magnetic materials in recent years promoted many outstanding representatives of various scientific disciplines (physics, chemistry and materials science) to present their latest findings in a scientific atmosphere of the highest standard at the MSM-99 conference. Over 200 eminent scientists from 50 countries gathered to discuss the physics, materials science and application of magnetic and superconducting materials, and to foster research and development collaborations between the scientists and technologists of the regional countries and also with the international scientific community. The main topics of this book are the physics, materials science and application of magnetic and superconducting materials having a close relationship between the strong correlated electron system and magnetism.

Managing Supply Chain Risk and Disruptions: Post COVID-19 Jaypee Brothers Medical Publishers

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-

impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

I. K. International Pvt Ltd

Flow batteries have received attention in large-scale energy storage due to their flexible design, high safety, high energy efficiency, and environmental friendliness. In recent years, they have been rapidly developed and tested in a variety of scales that prove their feasibility and advantages of use. As energy becomes a global focus, it is important to consider flow battery systems. This book offers a detailed introduction to the function of different kinds of redox flow batteries, including vanadium flow batteries, as well as the electrochemical processes for their development, materials and components, applications, and near future prospects. Redox Flow Batteries: Fundamentals and Applications will give readers a full understanding of flow batteries from fundamentals to commercial applications.

Solid State Koros Press

So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Redox Flow Batteries S. Chand Publishing

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

Basic Electronics CRC Press

About The Book: No other book on the market today can match the success of Halliday, Resnick and Walker's Fundamentals of Physics! In a breezy, easy-to-understand style the book offers a solid understanding of fundamental physics concepts, and helps readers apply this conceptual understanding to quantitative problem solving. The extended edition provides coverage of developments in

Physics in the last 100 years, including: Einstein and Relativity, Bohr and others and Quantum Theory, and the more recent theoretical developments like String Theory. This book offers a unique combination of authoritative content and stimulating applications.

Magnetic and Superconducting Materials New Age International

Fundamentals of Computing and Programming in C is specifically designed for first year engineering students covering the syllabus of various universities. It provides a comprehensive introduction to computers and programming using C language. The topics are covered sequentially and blended with examples to enable students to understand the subject effectively and imbibe the logical thinking required for software industry applications. KEY FEATURES • Foundations of computers • Contains logical sequence of examples for easy learning • Efficient method of program design • Plenty of solved examples • Covers simple and advanced programming in C

Pandex Current Index to Scientific and Technical Literature John Wiley & Sons

A Textbook of Engineering Physics

S.Chand Engineering Physics CRC Press

Engineering Physics is designed to cater to the needs of first year undergraduate engineering students. Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography, principles of quantum mechanics, free electron theory of metals, dielectric and magnetic properties, semiconductors, nanotechnology, etc.

Prestressed concrete Tata McGraw-Hill Education

Physics for Engineers New Age International Essentials of Oral & Maxillofacial Radiology Jaypee Brothers Medical Publishers The Indian National Bibliography Indian National Bibliography Optics Tata McGraw-Hill Education A Textbook Of Engineering Physics (As Per Vtu Syllabus) New Age International Irregular Serials & Annuals An International Directory Engineering Mathematics - li New Age International

Applied Mechanics Reviews S. Chand Publishing

Fiber optics or optical fibers are long, thin strands of very pure glass about the diameter of a human hair. They are very popular for many applications due to their special features such as unlimited bandwidth to transmit information, low loss, immunity to interferences and galvanic isolation. Optical communication is the current era in which optical fibers play an important role. Fiber optic cables find many uses in a wide variety of industries and applications. Fiber is laid and used for transmitting and receiving purposes in telecommunications. They are used for data transmission, in data storage, and to connect users and servers in a variety of network. They help to increase the speed and accuracy of data transmission. Broadcast/cable companies are using fiber optic cables for wiring CATV, HDTV, internet, video on-demand and other applications. Fiber optic cables are used for lighting and imaging and as sensors to measure and monitor a vast array of parameters. Fiber optic cables are also used in research and development and testing across the industries and research laboratories. The field of optical fiber sensors has advanced substantially in the last decade. A fiber-optic sensor system consists of a fiber-optic cable connected to a remote sensor or amplifier. The sensor emits, receives, and converts the light energy into an electrical signal. Fiber optic sensors are widely used in industry and in medical applications. They are used as light guides and imaging tools in medical field. This book deals with the fundamentals of light, fibers and fiber optics along with various types of fibers, lasers including the recent advances in lasers. Since optical communications is the current interest of this century, optical sources, detectors, optoelectronic modulators, optical amplifiers, fiber optic network components and optoelectronic integrated circuits are discussed extensively in this book. Further, a chapter is fully devoted in this book on applications of optical fibers which include many fiber optic sensors, and new fibers in medical field. The book will be useful to university and college students, teachers, engineers, doctors and common man as the fiber optic applications are expanding very

rapidly due to several multibenefits.

A Textbook of Engineering Physics, Volume-I (For 1st Year of Anna University) Pearson Education India

The book is designed to serve as a textbook for an introductory course in physics for the first year B.E. Students of Anna University, Chennai and RTM Nagpur University, Nagpur. The book is written with the distinctive objectives of providing the students a single source of material as per the syllabi and solid foundation in physics. Engineering may be broadly called applied physics, which developed itself through application of principles of basic physics. The fundamental discoveries in physics are harnessed by engineering; and in turn, engineering paved way to more discoveries in physics.

Engineering Chemistry World Scientific

Encouraged by the response to the first edition and to keep pace with recent developments, Fundamentals of Electrical Drives, Second Edition incorporates greater details on semi-conductor controlled drives, includes coverage of permanent magnet AC motor drives and switched reluctance motor drives, and highlights new trends in drive technology. Contents were chosen to satisfy the changing needs of the industry and provide the appropriate coverage of modern and conventional drives. With the large number of examples, problems, and solutions provided, Fundamentals of Electrical Drives, Second Edition will continue to be a useful reference for practicing engineers and for those preparing for Engineering Service Examinations.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) Tata McGraw-Hill Education

Energy storage will be a very important part of the near future, and its effectiveness will be crucial for most future technologies. Energy can be stored in several different ways and these differ in terms of the type and the conversion method of the energy. Among those methods; chemical, mechanical, and thermal energy storage are some of the most favorable methods for containing energy. Current energy storage devices are still far from meeting the demands of new technological developments. Therefore, much effort has been put to improving the performance of different types of energy storage technologies in the last few decades.