

Modern Engineering Physics By Gupta

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 Engineering Physics; Volume IV; Wave Motion and Sound
 Generation of Electrical Energy, 7th Edition
 Knowledge Engineering for Modern Information Systems
 FUNDAMENTALS OF OPTICS, SECOND EDITION
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 Applied Physics II | AICTE Prescribed Textbook - English
 Concepts of Modern Engineering Physics
 Geometrical Optics in Engineering Physics
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 Notable Modern Indian Mathematicians and Statisticians
 Essentials of Engineering Physics (RTU)
 Engineering Physics: Vol. 1
 Modern Hydrology and Sustainable Water Development
 Modern Ferrites, Volume 1
 Nuclear Physics
 Tribology in Industries

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Physics for Scientists and Engineers MJP Publisher

Modern Physics for Scientists and Engineers provides thorough understanding of concepts and principles of Modern Physics with their applications. The various concepts of Modern Physics are arranged logically and explained in simple reader friendly language. For proper understanding of the subject, a large number of problems with their step-by-step solutions are provided for every concept. University problems have been included in all chapters. A set of theoretical, numerical and multiple choice questions at the end of each chapter will help readers to understand the subject. This textbook covers broad variety of topics of interest in Modern Physics: The Special Theory of Relativity, Quantum Mechanics (Dual Nature of Particle as well as Schrödinger's Equations with Applications), Atomic Physics, Molecular Physics, Nuclear Physics, Solid State Physics, Superconductivity, X-Rays, Lasers, Optical Fibres, and Motion of Charged Particle in Electromagnetic Fields. The book is designed as a textbook for the undergraduate students of science and engineering.

Publisher's Monthly The Electrochemical Society

Generation of Electrical Energy is written primarily for the undergraduate students of electrical engineering while also covering the syllabus of AMIE and act as a refresher for the professionals in the field. The subject itself is now rejuvenated with important new developments. With this in view, the

book covers conventional topics like load curves, steam generation, hydro-generation parallel operation as well as new topics like new sources of energy generation, hydrothermal coordination, static reserve reliability evaluation among others.

Engineering Physics; Volume IV; Wave Motion and Sound S. Chand Publishing

Physics For Engineers Is A Text Book For Students Studying A Course In Engineering. The Book Has Been Written According To The Syllabi Prescribed In The Various Universities Of Karnataka. But It Can Be Profitably Used By The Students Of Other Indian Universities As Well. Engineering Is Generally Regarded As Applied Physics. It Is The Purpose Of The Book To Present The Principles And Concepts Of Physics As Relevant To An Engineer. The Topics Covered In The Book Are Drawn From Acoustics, Optics, Solid State Physics, Materials Science, Heat, Thermodynamics, Electricity And Magnetism. Some Of The Salient Features Of The Book Are: * Lucid Style * Clarity In The Presentation Of Concepts * Contains Numerous Problems And Solved Examples * Has More Than 300 Figures.

Generation of Electrical Energy, 7th Edition CRC Press

his thoroughly revised and updated text, now in its second edition, is primarily intended as a textbook for undergraduate students of Physics. The book provides a sound understanding of the fundamental concepts of optics adopting an integrated approach to the principles of optics. It covers the requirements of syllabi of undergraduate students in Physics and Engineering in Indian Universities. The book includes a wide range of interesting topics such as Fermat's principle, geometrical optics, dispersion, interference, diffraction and polarization of light waves, optical instruments and lens aberrations. It also discusses electromagnetic waves, fundamentals of vibrations and wave motion. The text explains the concepts through extensive

use of line drawings and gives full derivations of essential relations. The topics are dealt with in a well-organized sequence with proper explanations along with simple mathematical formulations. New to the SECOND Edition • Incorporates two new chapters, i.e., 'Fundamentals of Vibrations', and 'Wave Motion' • Includes several worked-out examples to help students reinforce their comprehension of theory • Provides Formulae at a Glance and Conceptual Questions with their answers for quick revision KEY FEATURES • Provides several Solved Numerical Problems to help students comprehend the concepts with ease • Includes Multiple Choice Questions and Theoretical Questions to help students check their understanding of the subject matter • Contains unsolved Numerical Problems with answers to build problem-solving skills

Knowledge Engineering for Modern Information Systems S. Chand Publishing

This book provides a comprehensive portrayal of the history of Indian mathematicians and statisticians and uncovers many missing parts of the scientific representation of mathematical and statistical research during the 19th and 20th centuries of Bengal (now West Bengal), India. This book gives a brief historical account about the establishment of the first-two departments in an Indian university, where graduate teaching and research were initiated. This was a unique distinction for the University of Calcutta which was established in 1857. The creation of the world famous Indian Statistical Institute (ISI) in Calcutta (now Kolkata) is also briefly described. The lives and works of the 16 pioneer mathematical scientists who adorned the above mentioned institutions and the first Indian Institute Technology (IIT) of India have been elaborated in lucid language. Some outstanding scholars who were trained at the ISI but left India permanently have also been discussed briefly in a separate chapter. This book fulfils a long-standing gap in the history of modern Indian mathematics, which will make the book very useful to researchers in the history of science and mathematics. Written in very lucid English with little mathematical or statistical jargon makes the book immensely readable even to general readers with interest in scientific history even from non-mathematical, non-statistical background. This book is a clear portrayal of the struggle and success of researchers in mathematical sciences in Bengal (an important part of the colonial India), unveils before the international community of mathematical scientists. The real connoisseurs will appreciate the value of the book, as it will clear up many prevailing misconceptions.

FUNDAMENTALS OF OPTICS, SECOND EDITION Walter de Gruyter GmbH & Co KG

This well-received book, now in its fifth edition, presents the subject matter in a pedagogically sound manner with focus on teaching problem-solving. The specific needs of these students have influenced the selection of topics for inclusion in the book. The book provides students with a solid understanding of the fundamental concepts with due emphasis on developing skills to solve exercise problems aimed at both testing and extending the knowledge of the students. Divided into 23 chapters, the book comprises topics on four major areas—mechanics, optics, electricity and electronics, and modern physics including quantum mechanics and lasers. In this fifth edition two new chapters on Acoustics and Heat and Thermodynamics are incorporated to widen the coverage and enhance the usefulness of this text. This book is intended for the undergraduate students of physics as well as for the first-year engineering students of several disciplines.

A Textbook of Engineering Physics (Kerala) S. Chand Publishing

Brings the Band Structure of Carbon-Based Devices into the Limelight A shift to carbon is positioning biology as a process of synthesis in mainstream engineering. Silicon is quickly being replaced with carbon-based electronics, devices are being reduced down to nanometer scale, and further potential applications are being considered. While traditionally, engineers are trained by way of physics, chemistry, and mathematics, Nanoelectronics: Quantum Engineering of Low-Dimensional Nanoensembles establishes biology as an essential basic science for engineers to explore. Unifies Science and Engineering: from Quantum Physics to Nanoengineering Drawing heavily on published papers by the author, this research-driven text offers a complete review of nanoelectronic transport starting from quantum waves, to ohmic and ballistic conduction, and saturation-limited extreme nonequilibrium conditions. In addition, it highlights a new paradigm using non-equilibrium Arora's Distribution Function (NEADF) and establishes this function as the starting point (from band theory to equilibrium to extreme nonequilibrium carrier statistics). The author focuses on nano-electronic device design and development, including carbon-based devices, and provides you with a vantage point for the global outlook on the future of nanoelectronics devices and ULSI. Encompassing ten chapters, this illuminating text: Converts the electric-field response of drift velocity into current-voltage relationships that are driven by the presence of critical voltage and saturation current arising from the unidirectional drift of carriers Applies the effect of these scaled-down dimensions to nano-MOSFET (metal-oxide-semiconductor field-effect transistor) Considers specialized applications that can be tried through a number of suggested projects that are all feasible with MATLAB® codes Nanoelectronics: Quantum Engineering of Low-Dimensional Nanoensembles contains the latest research in nanoelectronics, identifies problems and other factors to consider when it comes to nanolayer design and application, and ponders future trends. Print Versions of this book also include access to the ebook version.

Concepts of Modern Physics Alpha Science Int'l Ltd.

Covering the key theories, tools, and techniques of this dynamic field, Handbook of Nanophysics: Principles and Methods elucidates the general theoretical principles and measurements of nanoscale systems. Each peer-reviewed chapter contains a broad-based introduction and enhances understanding of the state-of-the-art scientific content through fund

Physics for Engineers CRC Press

Includes section "Reviews and notices of books".

Nanoelectronics S. Chand Publishing

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.

Silicon Compatible Materials, Processes, and Technologies for Advanced Integrated Circuits and Emerging Applications 7 S. Chand Publishing

For the Students of B.E./B.Tech. of Rajasthan Technical University, Kota (Rajasthan). Many topics have been rearranged and many more examples have been included to make the various articles and examples more lucid and care has been taken to include all the examples that have been set in various university examinations.

Modern Optimization Methods for Science, Engineering and Technology Myprint

Achieving a better solution or improving the performance of existing system design is an ongoing process for which scientists, engineers, mathematicians and researchers have been striving for many years. Ever increasingly practical and robust methods have been developed, and every new generation of computers with their increased power and speed allows for the development and wider application of new types of solutions. This book defines the fundamentals, background and theoretical concepts of optimization principles in a comprehensive manner along with their potential applications and implementation strategies. It encompasses linear programming, multivariable methods for risk assessment, nonlinear methods, ant colony optimization, particle swarm optimization, multi-criterion and topology optimization, learning classifier, case studies on six sigma, performance measures and evaluation, multi-objective optimization problems, machine learning approaches, genetic algorithms and quality of service optimizations. The book will be very useful for wide spectrum of target readers including students and researchers in academia and industry.

Krishina's Engineering Physics; Volume III; Optics; 2001 KHANNA BOOK PUBLISHING CO. PVT. LTD.

This book focusses on the Internet of Things (IoT) and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering, Communication and applicability of newly developed Solid State Technologies in Bio-medical Engineering and Health-Care. The Reader will be able to know the recent advancements in Microwave Engineering including novel techniques in Microwave Antenna Design and various aspects of Microwave Propagation. This book aims to showcase, the various aspects of Communication, Networking, Data Mining, Computational Biology, Bioinformatics, Bio-Statistics and Machine Learning. In this book, recent trends in Solid State Technologies, VLSI and applicability of modern Electronic Devices in Bio-informatics and Health-Care is focused. Furthermore, this book showcases the modern optimization techniques in Power System Engineering, Machine Design and Power Systems. This Book highlights the Internet of Things (IoT) and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering, Communication and applicability of newly developed Solid State Technologies in Bio-medical Engineering and Health-Care for day-to-day applications. Societal benefits of Microwave Technologies for smooth and hustle-free life are also areas of major focus. Microwave Engineering includes recent advancements and novel techniques in Microwave Antenna Design and various aspects of Microwave Propagation. Day-to-Day applicability of modern communication and networking technologies are a matter of prime concern. This book aims to showcase, the various aspects of Communication, Networking, Data Mining, Computational Biology, Bioinformatics, Bio-Statistics and Machine Learning. Role of Solid State Engineering in development of modern electronic gadgets are discussed. In this book, recent trends in Solid State Technologies, VLSI and applicability of modern Electronic Devices in Bio-informatics and Biosensing Devices for Smart Health care are also discussed. Features: This book features Internet of Things (IoT) and Data Mining for Modern Engineering and Healthcare Applications and the recent technological advancements in Microwave Engineering, Communication and applicability of newly developed Solid State Technologies in Bio-medical Engineering and Smart Health-Care Technologies Showcases the novel techniques in Internet of Things (IoT) integrated Microwave Antenna Design and various aspects of Microwave Communication Highlights the role of Internet of Things (IoT) various aspects of Communication, Networking, Data Mining, Computational Biology, Bioinformatics, Bio-Statistics and Machine Learning Reviews the role of Internet of Things (IoT) in Solid State Technologies, VLSI and applicability of modern Electronic Devices in Bio-informatics and Health-Care In this book, role of Internet of Things (IoT) in Power System Engineering, Optics, RF and Microwave Energy Harvesting and Smart Biosensing Technologies are also highlighted

Advances in Modern Sensors S. Chand Publishing

Knowledge Engineering (KE) is a field within artificial intelligence that develops knowledgebased systems. KE is the process of imitating how a human expert in a specific domain would act and take decisions. It contains large amounts of knowledge, like metadata and information about a data object that describes characteristics such as content, quality, and format, structure and processes. Such systems are computer programs that are the basis of how a decision is made or a conclusion is reached. It is having all the rules and reasoning mechanisms to provide solutions to real-world problems. This book presents an extensive collection of the recent findings and innovative research in the information system and KE domain. Highlighting the challenges and difficulties in implementing these approaches, this book is a critical reference source for academicians, professionals, engineers, technology designers, analysts, undergraduate and postgraduate students in computing science and related disciplines such as Information systems, Knowledge Engineering, Intelligent Systems, Artificial Intelligence, Cognitive Neuro - science, and Robotics. In addition, anyone who is interested or involved in sophisticated information systems and knowledge engineering developments will find this book a valuable source of ideas and guidance.

A Textbook of Engineering Physics CRC Press

A Textbook-cum-reference book for Undergraduate, Graduate and Postgraduate students of Mechanical, Electrical, Maintenance and Production Engineering disciplines. This book would also be of immense help to various practising engineers, technologists, managers and supervisors engaged in the maintenance, operation and upkeep of the different machines, equipments, systems and plants of various industries.

Internet of Things and Data Mining for Modern Engineering and Healthcare Applications Krishna Prakashan Media

The goal of this monograph is to develop the theory of wavelet harmonic analysis on the sphere. By starting with orthogonal polynomials and functional Hilbert spaces on the sphere, the foundations are laid for the study of spherical harmonics such as zonal functions. The book also discusses the construction of wavelet bases using special functions, especially Bessel, Hermite, Tchebychev, and Gegenbauer polynomials.

Modern Hybrid Machining and Super Finishing Processes Krishna Prakashan Media

This monograph provides concise and clear coverage of modern ray theory without the need of complicated mathematics. Comprehensive coverage is given to wave problems in engineering physics, considering rays and caustics as physical objects.

Applied Physics II | AICTE Prescribed Textbook - English S. Chand Publishing

This book reports on new methodologies and important applications in the field of nanopolymers as well as includes the latest coverage of chemical databases and the development of new computational methods and efficient algorithms for chemical software and chemical engineering. The book provides an overview of the field, explains the basic underlying theory, and gives numerous comparisons of different methods. The new topics covered in this book will be an excellent resource for industries and academic researchers as well.

Concepts of Modern Engineering Physics Springer Nature

Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted wholeheartedly by students and teachers alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters became redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

Best Sellers - Books :

- [Jackie: Public, Private, Secret](#) By J. Randy Taraborrelli
- [Things We Hide From The Light](#) (knockemout Series, 2)
- [The Inmate: A Gripping Psychological Thriller](#)
- [Think And Grow Rich: The Landmark Bestseller Now Revised And Updated For The 21st Century](#) (think And Grow Rich Series)
- [Girl In Pieces](#)
- [If He Had Been With Me](#) By Laura Nowlin
- [The 5 Love Languages: The Secret To Love That Lasts](#) By Gary Chapman
- [The Legend Of Zelda: Tears Of The Kingdom - The Complete Official Guide: Collector's Edition](#) By Piggyback
- [The Ballad Of Songbirds And Snakes](#) (a Hunger Games Novel) (the Hunger Games)
- [The Going To Bed Book](#) By Sandra Boynton

Geometrical Optics in Engineering Physics Walter de Gruyter GmbH & Co KG

This book is a compendium of fundamental mathematical concepts, methods, models, and their wide range of applications in diverse fields of engineering. It comprises essentially a comprehensive and contemporary coverage of those areas of mathematics which provide foundation to electronic, electrical, communication, petroleum, chemical, civil, mechanical, biomedical, software, and financial engineering. It gives a fairly extensive treatment of some of the recent developments in mathematics which have found very significant applications to engineering problems.