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This book aims at providing a complete coverage of the needs of First Year students as per S.B.T.E's. revised syllabus. The entire revised syllabus has been covered keeping in view the non-availability of the complete subject matter through a single source. The difficult articles have been explained in a simple language providing, wherever necessary, neat and well explained diagrams so that even an average student may be able to follow it independently. A sufficient number of solved examples and problems with answers and SBTE questions are given at the end of each topic. Formulae specifying symbol meaning are enlisted before solving the examples.
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Engineering Physics - I (U.P. Technical University, Lucknow) Springer Science & Business Media
This book is written specifically to address the course curriculum in Engineering Physics for the first-year students of all branches of engineering. Though most of the topics covered are customarily taught in several universities and institutes, the book follows the sequence of topics as prescribed in the course syllabus of engineering colleges in Tamil Nadu. This new edition of the book continues to present the fundamental concepts of physics in a pedagogically sound manner. It includes a new chapter on Thermal Physics, which is essential for core engineering students. Furthermore, topics like crystal growth techniques, estimation of packing density of diamond and the relation between three moduli of elasticity are included at the appropriate places, to improve the understanding of the subject matter. KEY FEATURES • Several numerical problems (solved and unsolved) to strengthen the problem-solving ability of students • Short and Long questions at the end of each chapter • Model Test Papers with solutions • Summary at the end of each chapter to recapitulate the most important results of the chapter
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This Book Is Based On The Common Core Syllabus Of Up Technical University. It Explains, In A Simple And Systematic Manner, The Basic Principles And Applications Of Engineering Physics. After Explaining The Special Theory Of Relativity, The Book Presents A Detailed Analysis Of Optics.Scalar And Vector Fields Are Explained Next, Followed By Electrostatics. Magnetic Properties Of Materials Are Then Described. The Basic Concepts And Applications Of X-Rays Are Highlighted Next. Quantum Theory Is Then Explained, Followed By A Lucid Account Of Lasers. After Explaining The Basic Theory, The Book Presents A Series Of Interesting Experiments To Enable The Students To Acquire A Practical Knowledge Of The Subject.A Large Number Of Questions And Model Test Papers Have Also Been Added. Different Chapters Have Been Revised And More Numerical Problems As Per Requirement Have Been Added. The Book Would Serve As An Excellent Text For First Year Engineering Students. Diploma Students Would Also Find It Extremely Useful.
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A Txtbook of Engineering Physics is written with two distinct objectives:to provied a single source of information for engineering undergraduates of different specializations and provied them a solid base in physics.Successivs editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-
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applications in the field of mechanical and electrical engineering, it goes on to explain the basic concepts such as Huygen's principle, Fresnel's biprism, Fraunhofer diffraction and polarization. Emphasis has been given to an understanding of the basic concepts and their applications to a number of engineering problems. Each topic has been discussed in detail, both conceptually and mathematically. Pedagogical features including solved problems, unsolved exercised and multiple choice questions are interspersed throughout the book. This will help undergraduate students of engineering acquire skills for solving difficult problems in quantum mechanics, electromagnetism, nanoscience, energy systems and other engineering disciplines.
Engineering Physics (For 1st Year of JNTU, Anantapur) S. Chand Publishing
Covering the theory of computation, information and communications, the physical aspects of computation, and the physical limits of computers, this text is based on the notes taken by one of its editors, Tony Hey, on a lecture course on computation given b
Textbook Of Engineering Physics - S. Chand Publishing
Engineering Physics I: For Anna University is designed to cater to the needs of the first-year undergraduate engineering students of Anna University. Written in a lucid style, this book assimilates the best principles of conceptual pedagogy, dealing at length with various topics such as Ultrasonics, Lasers, Fibre Optics, Quantum Physics and Crystal Physics.
Applied Physics I (University of Mumbai) Oxford University Press
The development of high-order accurate numerical discretization techniques for irregular domains and meshes is often cited as one of the remaining chal lenges facing the field of computational fluid dynamics. In structural me chanics, the advantages of high-order finite element approximation are widely recognized. This is especially true when high-order element approximation is combined with element refinement (h-p refinement). In computational fluid dynamics, high-order discretization methods are infrequently used in the com putation of compressible fluid flow. The hyperbolic nature of the governing equations and the presence of solution discontinuities makes high-order ac curacy difficult to achieve. Consequently, second-order accurate methods are still predominately used in industrial applications even though evidence sug gests that high-order methods may offer a way to significantly improve the resolution and accuracy for these calculations. To address this important topic, a special course was jointly organized by the Applied Vehicle Technology Panel of NATO's Research and Technology Organization (RTO), the von Karman Institute for Fluid Dynamics, and the Numerical Aerospace Simulation Division at the NASA Ames Research Cen ter. The NATO RTO sponsored course entitled "Higher Order Discretization Methods in Computational Fluid Dynamics" was held September 14-18,1998 at the von Karman Institute for Fluid Dynamics in Belgium and September 21-25,1998 at the NASA Ames Research Center in the United States.
A Textbook of Engineering Physics New Age International
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S.Chand's Engineering Physics Vol-1 S. Chand Publishing
The first edition of this work appeared in 1930, and its originality won it immediate recognition as a classic of modern physical theory. The fourth edition has been bought out to meet a continued demand. Some improvements have been made, the main one being the complete rewriting of the chapter on quantum electrodymanics, to bring in electron-pair creation. This makes it suitable as an introduction to recent works on quantum field theories.
Lectures On Computation PHI Learning Pvt. Ltd.
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Strictly according to the New Syllabus of Gujarat Technology University,Ahmedabad (Common to All Branches of B.E. / B.Tech 1st year)
Engineering Physics: For PTU PHI Learning Pvt. Ltd.
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.
Principles of Engineering Physics 2 PHI Learning Pvt. Ltd.
For B.E./B.Tech. students of Maharishiu Dayanand University (MDU) and Kurushetra University, Kurushetra and other universities of Haryana. Many topics have been re-arranged 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.

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