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earson introduces the first edition of engineering physics an ideal offering for the undergraduate engineering students the book provides seamless consolidation of the basic principles of physics and its applications along with rigorous practice questions for self

assessment apt for self study this book is also a must have for all the students studying engineering physics

engineering physics is a multidisciplinary field of study which integrates principles from the diverse areas of mathematics engineering and physics the primary objective of this field is to develop innovative solutions for varied problems in engineering some of the major branches that fall under this field are accelerator physics plasma physics digital electronics fiber optics etc this book unravels the recent studies in the field of engineering physics it elucidates new techniques and their applications in a multidisciplinary approach those in search of information to further their knowledge will be greatly assisted by this book

this text reference provides students practicing engineers and scientists with the fundamental physical laws and modern applications used in industry unlike many of its competitors modern physics theory e g quantum physics and its applications are discussed in detail including laser techniques and fibre optics nuclear fusion digital electronics wave optics and more an extensive review of boolean algebra and logic gates is also included because of its in text examples with solutions and self study exercise sets the book can be used as a refresher for engineering licensing exams or as a full year course it emphasizes only the level of mathematics needed to master concepts used in industry

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

presents one hundred and thirty job descriptions for careers within the energy industry and includes positions dealing with coal electric nuclear energy renewable energy engineering machine operation science and others

the book now in its fourth edition covers all the relevant and vital topics lucidly and straight forwardly it emphasizes the basic concept of physics for engineering students it covers the topics like properties of matter acoustics ultrasonics with their industrial and medical applications quantum physics lasers along with their industrial and medical applications fibre optics with its uses in optical communication and fibre optic sensors wave optics crystal physics and imperfection in solids the book contains numerous solved problems short and descriptive type questions and exercise problems it will help students assess their progress and familiarize them with the types of questions set in examinations new to the edition the answers to all exercise problems are given at the end of the book the book contains a large number of additional solved problems the following topics are introduced and discussed in detail quantum mechanics crystallography laser fibre optics ultrasonics target audience b e b tech all branches of engineering

reminding us that modern inventions new materials information technologies medical technological breakthroughs are based on well established fundamental principles of physics jasprit singh integrates important topics from quantum mechanics statistical thermodynamics and materials science as well as the special theory of relativity he then goes a step farther and applies these fundamentals to the workings of electronic devices an essential leap for anyone interested in developing new technologies modern physics for engineers provides engineering and physics students with an accessible unified introduction to the complex world underlying today s design oriented curriculums it is also an extremely useful resource for engineers and applied scientists wishing to take advantage of research opportunities in diverse fields

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this book has been written to meet the requirement of undergraduate students of up technical universities although there are several books on engineering physics most of them are bulky and written by foreign authors most of these books are not suitable for the students of up technical universities the subject matter in this book has been introduced in a very lucid style so that the students may find it interesting there is profusion of illustrative examples of variety everywhere in the book these examples are followed by graded sets of exercises

a txtbook of engineering physics is written with two distinct objectives to provided a single source of information for engineering undergraduates of different specializations and provided them a solid base in physics successivis editions of the book incorporated topic as required

by students pursuing their studies in various universities in this new edition the contents are fine tuned modernized and updated at various stages

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

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