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basic physics principles and concepts is a book meant for students of physics from the late school to college levels covering both general and advanced course materials it is a great text on basic concepts in physics over a wide range of topics with a truly broad coverage which makes it a source book of unique value to students of physics one that will be of use for teachers of the subject too students and teachers in related subjects like chemistry biology and the various engineering disciplines will also benefit greatly from it the book is completely modern in approach and is exhaustive and authentic the presentation is exceptionally lucid and captures the essential charm of physics all the concepts are developed from elementary considerations and are built up to quite advanced levels without loss of coherence simplicity or elegance the mathematics is essentially at the high school level and relatively advanced mathematical ideas have all been built up in a self contained manner what is the principle of similitude what are polar and axial vectors what is a wrench

how are sliding and rolling friction explained what is an anharmonic oscillator what is tidal force how are the principal components of strain and stress defined how does the time period of angular oscillations of a floating body depend on the metacentric height what is boundary layer separation what is the entropy principle how does the doppler formula look in the case of accelerated motion of the source and the observer what is the relevance of diffraction in image formation what is electrostatic shielding what is the pathway of energy flow in an electrical circuit what is ferromagnetism what is back emf in a dc motor what are metamaterials what are the basic features of rayleigh scattering what is population inversion in laser operation how are harmonic oscillators relevant in the explanation of the black body spectrum what is relativistic aberration what is spin orbit coupling what are the features of an op amp what is a sr flip flop for answers to all these and to a host of other relevant questions you have to turn to the pages of this book it has nineteen meticulously written chapters systematically divided into sections and subsections and a moderate number of well chosen problems with hints for their solution

the goal of the present course on fundamentals of theoretical physics is to be a direct accompaniment to the lower division study of physics and it aims at providing the physical tools in the most straightforward and compact form as needed by the students in order to master theoretically more complex topics and problems in advanced studies and in research the presentation is thus intentionally designed to be sufficiently detailed and self contained sometimes admittedly at the cost of a certain elegance to permit individual study without reference to the secondary literature this volume deals with the quantum theory of many body systems building upon a basic knowledge of quantum mechanics and of statistical physics modern techniques for the description of interacting many particle systems are developed and applied to various real problems mainly from the area of solid state physics a thorough revision should guarantee that the reader can access the relevant research literature without experiencing major problems in terms of the concepts and vocabulary techniques and deductive methods found there the world which surrounds us consists of very many particles interacting with one another and their description requires in principle the solution of a corresponding number of coupled quantum mechanical equations of motion schrodinger equations which however is possible only in exceptional cases in a mathematically strict sense the concepts of elementary quantum mechanics and quantum statistics are therefore not directly applicable in the form in which we have thus far encountered them they require an extension and restructuring which is termed many body theory

this textbook presents a basic course in physics to teach mechanics mechanical properties of matter thermal properties of matter elementary

thermodynamics electrodynamics electricity magnetism light and optics and sound it includes simple mathematical approaches to each physical principle and all examples and exercises are selected carefully to reinforce each chapter in addition answers to all exercises are included that should ultimately help solidify the concepts in the minds of the students and increase their confidence in the subject many boxed features are used to separate the examples from the text and to highlight some important physical outcomes and rules the appendices are chosen in such a way that all basic simple conversion factors basic rules and formulas basic rules of differentiation and integration can be viewed quickly helping student to understand the elementary mathematical steps used for solving the examples and exercises instructors teaching from this textbook will be able to gain online access to the solutions manual which provides step by step solutions to all exercises contained in the book the solutions manual also contains many tips coloured illustrations and explanations on how the solutions were derived

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