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for all of you who break out in a sweat at the thought of thermodynamics or freeze up at the mention of quantum mechanics like a bolt from the blue instant physics will zap you through the fascinating history of our most basic yet baffling science

from the thousand year search for proof of the existence of the ever elusive atom to the varied and heated arguments behind the big bang theory instant physics answers all the heavy questions with a light touch you ll learn how the greek philosophers used the sledgehammer of mathematics to break apart the mysteries of the physical universe why gravity is a romantic force how to tell the difference between a gluon a meson and a quark even if you can t see them instant physics is crammed with special features including chapter summaries who s who lists biographical and historical tidbits and a host of illustrations photos equations diagrams and drawings

this book develops the best traditions of this kind of scientific literature written by working theoretical physicists who are at the same time dedicated popularizers of scientific knowledge the book is clear and captivating in style it brings to the reader the latest achievements of quantum solid state physics but on the way it shows how the laws of physics reveal themselves even in trivial at first sight episodes and natural phenomena around us and what is most important it portrays the world through the eyes of scientists proving the harmony by algebra

this is one of the most important books on quantum mechanics ever written for lay readers in which an eminent physicist and successful science writer heinz pagels discusses and explains the core concepts of physics without resorting to complicated mathematics can be read by anyone i heartily recommend it new york times book review 1982 edition

this book is meant to be a text for a rst course in quantum physics it is assumed that the student has had courses in modern physics and in mathematics through differential equations the book is otherwise self contained and does not rely on outside resources such as the internet to supplement the material si units are used throughout except for those topics for which atomic units are especially convenient it is our belief that for a physics major a quantum physics textbook should be more than a one or two semester acquaintance consequently this book contains material that while germane to the subject the instructor might choose to omit because of time limitations there are topics and examples included that are not normally covered in introductory textbooks these topics are not necessarily too advanced they are simply not usually covered we have not however presumed to tell the instructor which topics must be included and which may be omitted it is our intention that

omitted subjects are available for future reference in a book that is already familiar to its owner in short it is our hope that the student will use the book as a reference after having completed the course we have included at the end of most chapters a retrospective of the chapter this is not meant to be merely a summary but rather an overview of the importance of the material and its place in the context of previous and forthcoming chapters

understanding physics second edition is a comprehensive yet compact introductory physics textbook aimed at physics undergraduates and also at engineers and other scientists taking a general physics course written with today's students in mind this text covers the core material required by an introductory course in a clear and refreshing way a second colour is used throughout to enhance learning and understanding each topic is introduced from first principles so that the text is suitable for students without a prior background in physics at the same time the book is designed to enable students to proceed easily to subsequent courses in physics and may be used to support such courses mathematical methods in particular calculus and vector analysis are introduced within the text as the need arises and are presented in the context of the physical problems which they are used to analyse particular aims of the book are to demonstrate to students that the easiest most concise and least ambiguous way to express and describe phenomena in physics is by using the language of mathematics and that at this level the total amount of mathematics required is neither large nor particularly demanding modern physics topics relativity and quantum mechanics are introduced at an earlier stage than is usually found in introductory textbooks and are integrated with the more classical material from which they have evolved this book encourages students to develop an intuition for relativistic and quantum concepts at as early a stage as is practicable the text takes a reflective approach towards the scientific method at all stages and in keeping with the title of the text emphasis is placed on understanding of and insight into the material presented

this book aims to provide solid bases for the study of physics for the university and it is divided into four parts each dedicated to a fundamental branch of physics quantum mechanics theoretical physics particle physics and condensed matter physics in the first part we start with the concept of wave function until the heisenberg uncertainty principle in the second part after recalling the basic concepts of relativity we treat the elementary particles and the hadrons arriving to the notions of

scattering and cross section the third part is dedicated to the theoretical physics where we analyze the field theory and the concepts of lagrangian and hamiltonian introducing the quantum electrodynamics qed passing through the klein gordon dirac and maxwell fields in the last part of the book we expose the basics of the condensed matter physics including diffusion and brownian motion drude and sommerfeld models the calculation of specific heat and the principal mechanical properties of solids with references to lattice defects and semiconductors

physics in minutes covers everything you need to know about physics condensed into 200 key topics each idea is explained in clear accessible language building from the basics such as mechanics waves and particles to more complex topics including neutrinos string theory and dark matter following the latest scientific research proving that the brain best absorbs information visually each description is accompanied by illustrations to aid quick comprehension and easy recollection this convenient and compact reference book is ideal for anyone interested in how our world works chapters include newton s laws of motion schrodinger s cat magnetism superconductivity fission and fusion higgs boson entropy dark matter

the books in this bite sized new series contain no complicated techniques or tricky materials making them ideal for the busy the time pressured or the merely curious understanding physics is a short simple and to the point guide in just 96 pages the reader will learn all the basics from atoms and molecules to forces energy and quantum theory ideal for the busy the time pressured or the merely curious understanding physics is a quick no effort way to break into this fascinating topic understand matter and energy explore key physicists grasp essential theories apply your knowledge feel confident with physics

unlike some other reproductions of classic texts 1 we have not used ocr optical character recognition as this leads to bad quality books with introduced typos 2 in books where there are images such as portraits maps sketches etc we have endeavoured to keep the quality of these images so they represent accurately the original artefact although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy

max born 1882 1970 was a physicist and mathematician who won the 1954 nobel prize in physics for his research in the area of quantum mechanics originally published in 1943 this book presents a slightly expanded version of an address born gave to

the durham philosophical society and the pure science society king s college at newcastle upon tyne on 21st may 1943 the text provides an examination of the mutual relationship between theory and experiment in the development of physics this book will be of value to anyone with an interest in the works of born physics and the history of science

this book is designed as per the new curriculum conceived for the students of b sc physics although the approach is primarily qualitative a reasonably large number of illustrative examples and segregated exercises are included wherever possible to ensure that the students develop a taste of real rigour of physics

most of the progress made in particle physics during the last two decades has led to the formulation of the so called standard model of elementary particles and its quantitative experimental test the book deals with this progress but includes chapters which provide the necessary background material to modern particle physics particle physics forms an essential part of physics curriculum this is a textbook but will also be useful for people working in this field and for nuclear physicists particularly those who work on topics concerning interface between nuclear and particle physics the book is designed for a semester course for senior undergraduates and a semester course for graduate students formal quantum field theory is not used a knowledge of non relativistic quantum mechanics is required for some parts of the book but for the remaining parts the familiarity with the dirac equation is essential however some of these topics are included in the appendix

this is an accessible introduction to the subject of physics and how it underpins our understanding of the physical world today starting with an initial description of what physics represents from the micro to the macroscopic roger blin stoye takes the reader on a tour of newton s laws the nature of matter explaining how the physical world works and how physics may affect our future understanding the treatment avoids detailed mathematics and at all times relates the concepts introduced to the reader s everyday experience the author makes effective use of simple line drawings to illustrate the concepts introduced topics are presented with clarity and precision the author s enthusiasm for his subject and his desire to make it comprehensible to the widest possible audience are evident it is a good foundation for exploring the more exotic aspects of physics as presented by for example close davies and hawking suggestions for further reading are included as an appendix

a new york times bestseller an informed and entertaining guide to what science can and cannot tell us the wall street journal stimulating encourage s readers to push past well trod assumptions and have fun doing so science magazine from renowned physicist and creator of the youtube series science without the gobbledygook a book that takes a no nonsense approach to life s biggest questions and wrestles with what physics really says about the human condition not only can we not currently explain the origin of the universe it is questionable we will ever be able to explain it the notion that there are universes within particles or that particles are conscious is ascientific as is the hypothesis that our universe is a computer simulation on the other hand the idea that the universe itself is conscious is difficult to rule out entirely according to sabine hossenfelder it is not a coincidence that quantum entanglement and vacuum energy have become the go to explanations of alternative healers or that people believe their deceased grandmother is still alive because of quantum mechanics science and religion have the same roots and they still tackle some of the same questions where do we come from where do we go to how much can we know the area of science that is closest to answering these questions is physics over the last century physicists have learned a lot about which spiritual ideas are still compatible with the laws of nature not always though have they stayed on the scientific side of the debate in this lively thought provoking book hossenfelder takes on the biggest questions in physics does the past still exist do particles think was the universe made for us has physics ruled out free will will we ever have a theory of everything she lays out how far physicists are on the way to answering these questions where the current limits are and what questions might well remain unanswerable forever her book offers a no nonsense yet entertaining take on some of the toughest riddles in existence and will give the reader a solid grasp on what we know and what we don t know

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