

Modern Physics Kenneth Krane 2nd Edition

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modern physics 2nd edition is the revision of a modern classic that covers all the major topics in modern physics including relativity quantum physics and their applications the special theory of relativity the particlelike properties of electromagnetic radiation the wavelike properties of particles the schrödinger equation the rutherford bohr model of the atom the hydrogen atom in wave mechanics many electron atoms molecular structure statistical physics solid state physics nuclear structure and radioactivity nuclear reactions and applications elementary particles astrophysics and general relativity cosmology the origin and fate of the

universe

this comprehensive and well written book provides a thorough understanding of the principles of modern physics their relations and their applications most of the developments in physics that took place during the twentieth century are called modern something to be treated differently from the classical physics this book offers a detailed presentation of a wide range of interesting topics starting from the special theory of relativity basics of quantum mechanics atomic physics spectroscopic studies of molecular structures solid state physics and proceeding all the way to exciting areas such as lasers fibre optics and holography an in depth treatment of the different aspects of nuclear physics focuses on nuclear properties nuclear models fission fusion particle accelerators and detectors the book concludes with a chapter on elementary interactions symmetries conservation laws the quark model and the grand unified theory clear and readable this book is eminently suitable as a text for b sc physics course

explores the origins of the universe from an experimental physicist s perspective including explaining quarks and leptons discussing neutrino oscillations and speculating on string theory

the big bang the birth of the universe was a singular event all of the matter of the universe was concentrated at a single point with temperatures so high that even the familiar protons and neutrons of atoms did not yet exist but rather were replaced by a swirling maelstrom of energy matter and antimatter exotic quarks and leptons flickered briefly into existence before merging back into the energy sea this book explains the fascinating world of quarks and leptons and the forces that govern their behavior told from an experimental physicist s perspective it forgoes mathematical complexity using instead particularly accessible figures and apt analogies in addition to the story of quarks and leptons which are regarded as well accepted fact the author who is a leading researcher at one of the world s highest energy particle physics laboratories also discusses mysteries at both the experimental and theoretical frontiers before tying it all together with the exciting field of cosmology and indeed the birth of the universe itself the text spans the tiny world of the quark to the depths of the universe with breathtaking clarity the casual student of science will appreciate the careful distinction between what is known quarks leptons and antimatter what is suspected higgs bosons neutrino oscillations and the reason why the universe has so little antimatter and what is merely dreamed supersymmetry superstrings and extra dimensions included is an unprecedented chapter explaining the accelerators and detectors of

modern particle physics experiments the chapter discussing the hunt for the higgs boson currently consuming the efforts of nearly 6000 physicists reveals drama that only big stakes science can give understanding the universe leaves the reader with a deep appreciation of the fascinating particle realm and reverence for just how much it determines the rich beauty of our universe since the release of the first edition the landscape has changed the venerable fermilab tevatron has ceased operations after a quarter century of extraordinary performance to be replaced by the cern large hadron collider an accelerator with a design energy of seven times greater than the tevatron and a collision rate of nearly a billion collisions per second the next few years promise to be very exciting as scientists explore this new realm this revised edition of understanding the universe will leave the reader with a deep appreciation of just why physicists are so excited

this title can be used as a textbook for university level courses around the world it gives a detailed and systematic presentation of wide ranging topics of interest in modern physics molecular spectroscopy quantum mechanics statistical physics solid state physics lasers holography optical fibers semi conductors super conductivity etc each chapter contains important mathematical steps required to grasp a thorough understanding of each topic and case studies of recent advances in each field are included to give the reader new world applications to the theory pedagogical features to enhance easy learning include work through problems objective questions and short question and answer exercises modern physics will prove to be an excellent course text for undergraduates and a handy reference for teachers academics and researchers

provides an introduction to relativity quantum mechanics and statistical physics as well as applications of these theories to molecular physics condensed matter physics nuclear physics particle physics and cosmology

not all scientific explanations work by describing causal connections between events or the world s overall causal structure in addition mathematicians regard some proofs as explaining why the theorems being proved do in fact hold this book proposes new philosophical accounts of many kinds of non causal explanations in science and mathematics

this bibliography is a compilation of unclassified publications of work done at the los alamos scientific laboratory last for the years 1967 through 1971 papers published in those years are included regardless of when they were actually written publications received too late for inclusion in earlier compilations are also included

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