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Gupta, Manish and Kranti, Abhinav 2016. Transforming gate misalignment into a unique opportunity to facilitate steep switching in junctionless nanotransistors. Nanotechnology, Vol. 27, Issue. 45, p.

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'This is about gob-smacking science at the far end of reason ... Take it nice and easy and savour the experience of your mind being blown without recourse to hallucinogens' Nicholas Lezard, Guardian For most people, quantum theory is a byword for mysterious, impenetrable science. And yet for many years it was equally baffling for scientists themselves. In this magisterial book, Manjit Kumar gives a dramatic and superbly-written history of this fundamental scientific revolution, and the divisive debate at its core. Quantum theory looks at the very building blocks of our world, the particles and processes without which it could not exist. Yet for 60 years most physicists believed that quantum theory denied the very existence of reality itself. In this tour de force of science history, Manjit Kumar shows how the golden age of physics ignited the greatest intellectual debate of the twentieth century. Quantum theory is weird. In 1905, Albert Einstein suggested that light was a particle, not a wave, defying a century of experiments. Werner Heisenberg's uncertainty principle and Erwin Schrodinger's famous dead-and-alive cat are similarly strange. As Niels Bohr said, if you weren't shocked by quantum theory, you didn't really understand it. While "Quantum" sets the science in the context of the great upheavals of the modern age, Kumar's centrepiece is the conflict between Einstein and Bohr over the nature of reality and the soul of science. 'Bohr brainwashed a whole generation of physicists into believing that the problem had been solved', lamented the Nobel Prize-winning physicist Murray Gell-Mann. But in "Quantum", Kumar brings Einstein back to the centre of the quantum debate. "Quantum" is the essential read for anyone fascinated by this complex and thrilling story and by the band of brilliant men at its heart.

This well-organized and comprehensive text gives an in-depth study of the fundamental principles of Quantum Mechanics in one single volume. Appropriate for the postgraduate courses, the book deals with both relativistic and non-relativistic quantum mechanics. The distinguishing features of the text are its logical and systematic coverage of the fundamental principles and the applications of the theory, besides presentation of examples from the areas of atomic and molecular physics, solid state physics and nuclear physics. The mathematical treatment is rigorous and thorough and the text is supplemented with numerous problems, with hints provided for the difficult ones. These features make the text handy for self-study as well as for teaching.

"The standard work in the fundamental principles of quantum mechanics, indispensable both to the advanced student and to the mature research worker, who will always find it a fresh source of knowledge and stimulation." --Nature "This is the classic text on quantum mechanics. No graduate student of quantum theory should leave it unread"--W.C Schieve, University of Texas

Chapter 11 treats canonical quantization of both non-relativistic and relativistic fields; topics covered include the natural system of units, the Dyson and the Wick chronological products, normal products, Wick's theorem and the Feynman diagrams. The last Chapter (12) discusses in detail the Interpretational Problem in quantum mechanics.

"Quantum Mechanics: A Modern Introduction" differs from ordinary textbooks on the subject in two important ways: first, it introduces quantized systems and emphasizes quantum principles from the start rather than beginning with an analogy to classical laws or a historical approach; second, it contains a large number of practical examples that illustrate the concepts introduced and allow students to apply what they have learned.

the book has been revised to include the postgraduate physics syllabi of indian Universities in addition to the undergraduate honours syllabi covered in the previous edition.Apart from the new addition made in the existing chapters have been added in this edition to deal with the quantum mechanical theories of atomic and molecular structure.

This textbook is written as a basic introduction to Quantum Mechanics for use by the undergraduate students in physics, who are exposed to this subject for the first time. Providing a gentle introduction to the subject, it fills the gap between the available books which provide comprehensive coverage appropriate for postgraduate courses and the ones on Modern Physics which give a rather incomplete treatment of the subject leaving out many conceptual and mathematical details. The author sets out with Planck's quantum hypothesis and takes the student along through the new concepts and ideas, providing an easy-to-understand description of core quantum concepts and basic mathematical structures. The fundamental principles and the mathe-matical formalism introduced, are amply illustrated through a number of solved examples. Chapter-end exercises and review questions, generally designed as per the examination pattern, serve to reinforce the material learnt. Chapter-end summaries capture the key points discussed in the text. Beside the students of physics, the book can also be used by students of chemistry and first-year students of all branches of engineering for gaining a basic understanding of quantum mechanics, otherwise considered a difficult subject.

Intended to serve as a textbook for honours and postgraduate students of physics, this book provides a comprehensive introduction to the fundamental concepts, mathematical formalism and methodology of quantum mechanics.

Quantum technology has arrived as one of the most important new topics of research, as it is the newest way to create computing power, harness secure communications, and use sensitive measurement methods that surpass the capabilities of modern supercomputers. If successfully developed, quantum computers and technology will be able to perform algorithms at impressively quick rates and solve problems that were previously deemed impossible. This technology will disrupt what is already known about computing and will be able to reach new heights, speeds, and problem-solving capabilities not yet seen. Beyond its inherent benefits comes the fact that quantum technology will create improvements in many everyday gadgets as well, spanning many industries. The Research Anthology on Advancements in Quantum Technology presents the latest discoveries in quantum technology itself along with providing its essential uses, applications, and technologies that will impact computing in modern times and far into the future. Along with this overview comes a look at quantum technology in many different fields such as healthcare, communications, aviation, automotive, forecasting, and more. These industries will be looked at from the perspective of data analytics, pattern matching, cryptography, algorithms, and more. This book is essential for computer scientists, engineers, professionals, researchers, students, and practitioners interested in the latest information on quantum technology.

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