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Alastair I.M. Rae is author of the bestselling Quantum Physics: A Beginner ' s Guide and the popular

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textbook Quantum Mechanics (now in its fourth edition). For many years, he was Reader in Quantum Physics at the University of Birmingham. Books by this Author

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Continuing the exceptional tradition of the previous editions, *Quantum Mechanics, Fourth Edition* provides essential information about atomic and subatomic systems and covers some modern applications of the field. Supported by a Web page that contains a bibliography, color versions of some of the illustrations, and links to other relevant sites, the book shows how cutting-edge research topics of quantum mechanics have been applied to various disciplines. It first demonstrates how to obtain a wave equation whose solutions determine the energy levels of bound systems. The theory is then made more general and applied to a number of physical examples. Later chapters describe the connection between relativity and quantum mechanics, give some examples of how quantum mechanics has been used in information processing, and, finally, discuss the conceptual and philosophical implications of the subject. New to the Fourth Edition: A chapter on quantum information processing that includes applications to the encryption and de-encryption of coded messages A chapter on relativistic quantum mechanics and introductory quantum field theory Updated material on the conceptual foundations of quantum physics containing discussions of non-locality, hidden variables, and parallel universes Expanded information on tunneling microscopy and the Bose-Einstein condensate Presenting up-to-date information on the conceptual and philosophical aspects of quantum mechanics, this revised edition is suitable both for undergraduates studying physics, chemistry, or mathematics and for researchers involved in quantum physics.

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From quarks to computing, this fascinating introduction covers every element of the quantum world in clear and accessible language. Drawing on a wealth of expertise to explain just what a fascinating field quantum physics is, Rae points out that it is not simply a maze of technical jargon and philosophical ideas, but a reality which affects our daily lives.

This text explains clearly and with the minimum of mathematics the quantum mechanics needed by physics undergraduates. It is aimed mainly at physics students who have finished the first year of their courses, but its easy-to-follow approach will appeal to any undergraduate following a quantum mechanics course. It has been widely recommended as a course text for the last 12 years and this new edition brings the subjects covered right up-to-date - including an introduction to the de Broglie-Bohm hidden variable theory. Other changes include a discussion of the impressive new experiments that demonstrate neutron diffraction by macroscopic sized slits, a revised treatment of Clebsch-Gordan coefficients and a fuller discussion of spontaneous emission in the chapter on time dependence.

Continuing the exceptional tradition of the previous editions, Quantum Mechanics, Fourth Edition provides essential information about atomic and subatomic systems and covers some modern applications of the field. Supported by a Web page that contains a bibliography, color versions of some of the illustrations, and links to other relevant sites, the book shows how cutting-edge research topics of quantum mechanics have been applied to various disciplines. It first demonstrates how to obtain a wave equation whose solutions determine the energy levels of bound systems. The theory is then made more general and applied to a number of physical examples. Later chapters describe the connection between relativity and quantum mechanics, give some examples of how quantum mechanics has been used in

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information processing, and, finally, discuss the conceptual and philosophical implications of the subject. New to the Fourth Edition: A chapter on quantum information processing that includes applications to the encryption and de-encryption of coded messages A chapter on relativistic quantum mechanics and introductory quantum field theory Updated material on the conceptual foundations of quantum physics containing discussions of non-locality, hidden variables, and parallel universes Expanded information on tunneling microscopy and the Bose-Einstein condensate Presenting up-to-date information on the conceptual and philosophical aspects of quantum mechanics, this revised edition is suitable both for undergraduates studying physics, chemistry, or mathematics and for researchers involved in quantum physics.

This book presents the basic concepts and methods of quantum mechanics for upper level undergraduate students, allowing them to master its application to real physical situations. A postulate-based treatment is adopted together with a gradual development of the quantum formalism of wave functions, operators, measurement and temporal evolution. Standard topics of one-dimensional and atomic motion, angular momentum and approximation methods are presented in addition to detailed discussions of many-particle systems, atomic and nuclear radiation. Appropriate mathematical tools and techniques are provided wherever necessary. The core text is supplemented by 77 worked examples, some of which address more complex issues and aspects of present-day research. The aim is to make this textbook a realistic introduction to more advanced and specialized texts. The material provides full coverage of the subject matter, 94 problems with solutions and a further 93 with answers only

This introductory textbook covers fundamental quantum mechanics from an application perspective,

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considering optoelectronic devices, biological sensors and molecular imagers as well as solar cells and field effect transistors. The book provides a brief review of classical and statistical mechanics and electromagnetism, and then turns to the quantum treatment of atoms, molecules, and chemical bonds. Aiming at senior undergraduate and graduate students in nanotechnology related areas like physics, materials science, and engineering, the book could be used at schools that offer interdisciplinary but focused training for future workers in the semiconductor industry and for the increasing number of related nanotechnology firms, and even practicing people could use it when they need to learn related concepts. The author is Professor Dae Mann Kim from the Korea Institute for Advanced Study who has been teaching Quantum Mechanics to engineering, material science and physics students for over 25 years in USA and Asia.

A Thorough Update of One of the Most Highly Regarded Textbooks on Quantum Mechanics Continuing to offer an exceptionally clear, up-to-date treatment of the subject, Quantum Mechanics, Sixth Edition explains the concepts of quantum mechanics for undergraduate students in physics and related disciplines and provides the foundation necessary for other specialized courses. This sixth edition builds on its highly praised predecessors to make the text even more accessible to a wider audience. It is now divided into five parts that separately cover broad topics suitable for any general course on quantum mechanics. New to the Sixth Edition Three chapters that review prerequisite physics and mathematics, laying out the notation, formalism, and physical basis necessary for the rest of the book Short descriptions of numerous applications relevant to the physics discussed, giving students a brief look at what quantum mechanics has made possible industrially and scientifically Additional end-of-chapter problems with different ranges of difficulty This exemplary text shows students how cutting-edge

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theoretical topics are applied to a variety of areas, from elementary atomic physics and mathematics to angular momentum and time dependence to relativity and quantum computing. Many examples and exercises illustrate the principles and test students' understanding.

An unparalleled introduction to how the science of the small explains the biggest phenomena of life. From the atom to our societies, this is an unparalleled introduction to how the science of the small explains the biggest phenomena of life. Ever since the ancient Greeks conceived of the atom, humans have sought the smallest ingredients of existence. In the past century, the use of reductionism to understand behaviour has gained momentum as the quantum universe and the workings of the human mind have been uncovered in particle colliders and fMRI scanners. Acclaimed physicist Alastair I.M. Rae spells out how the powerful tool of reductionism works, from the level of subatomic particles, up through molecular chemistry, and beyond to our neural networks. How does physics explain consciousness? Can quantum mechanics be applied to the brain or mind? What can economists learn from reductionism? Rae's exploration is an indispensable guide to one of the most fundamental ideas of science.

Introduction and Survey of the Electromagnetic Spectrum; Fundamentals of Electric Fields; Fundamentals of Magnetic Fields; Electrodynamics; Radiation; Relativity and Quantum Physics; The Hidden Schematic; Transmission Lines; Waveguides and Shields; Circuits as Guides for Waves and S-Parameters; Antennas: How to Make Circuits That Radiate; EMC (Part I: Basics, Part II: PCB Techniques, Part III: Cabling); Lenses, Dishes, and Antenna Arrays; Diffraction; Frequency Dependence of Materials, Thermal Radiation, and Noise; Electrical Engineering Book Recommendations; Index.

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The development of physical theory is one of our greatest intellectual achievements. Its products--the currently prevailing theories of physics, astronomy, and cosmology--have proved themselves to possess intrinsic beauty and to have enormous explanatory and predictive power. This anthology of primary readings chronicles the birth and maturation of five such theories (the heliocentric theory, the electromagnetic field theory, special and general relativity, quantum theory, and the big bang theory) in the words of the scientists who brought them to life. It is the first historical account that captures the rich substance of these theories, each of which represents a fascinating story of the interplay of evidence and insight--and of dialogue among great minds. Readers sit in with Copernicus, Kepler, and Galileo as they overturn the geocentric universe; observe the genius of Faraday and Maxwell as they "discover" the electromagnetic field; look over Einstein's shoulder as he works out the details of relativity; listen in as Einstein and Bohr argue for the soul of quantum mechanics in the Completeness Debate; and watch as Hubble and others reveal the history of the universe. The editors' approach highlights the moments of discovery that rise from scientific creativity, and the presentation humanizes the scientific process, revealing the extent to which great scientists were the first to consider the philosophical implications of their work. But, most significantly, the editors offer this as their central thesis: although each was ushered in by a revolution, and each contains counterintuitive elements that delayed its acceptance, these five theories exhibit a continuous rational development that has led them to a permanent place in the worldview of science. Accessible to the general reader yet sufficiently substantive that working scientists will find value in it, *The Tests of Time* offers an intimate look into how physical theory has been developed, by the brilliant people who have developed it.

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