

Quantum Physics Of Atoms Eisberg Resnick Solutions

Quantum Physics of Atoms, Molecules, Solids, Nuclei, and Particles
John Wiley & Sons Incorporated

This book is designed to bridge the gap between the descriptive course at the sophomore level and a graduate course in quantum mechanics in which formal operator methods are used freely.

One of the field's most respected introductory texts, *Modern Physics* provides a deep exploration of fundamental theory and experimentation. Appropriate for second-year undergraduate science and engineering students, this esteemed text presents a comprehensive introduction to the concepts and methods that form the basis of modern physics, including examinations of relativity, quantum physics, statistical physics, nuclear physics, high energy physics, astrophysics, and cosmology. A balanced pedagogical approach examines major concepts first from a historical perspective, then through a modern lens using relevant experimental evidence and discussion of recent developments in the field. The emphasis on the interrelationship of principles and methods provides continuity, creating an accessible "storyline" for students to follow. Extensive pedagogical tools aid in comprehension, encouraging students to think critically and strengthen their ability to apply conceptual knowledge to practical applications. Numerous exercises and worked examples reinforce fundamental principles.

Balances mathematical discussions with physical discussions. * Derivations are complete and the theory is applied whenever possible. * Gasiorowicz is a world class researcher in quantum physics.

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Changes and additions to the new edition of this classic textbook include a new chapter on symmetries, new problems and examples, improved explanations, more numerical problems to be worked on a computer, new applications to solid state physics, and consolidated treatment of time-dependent potentials.

Accessible and flexible, MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematically uncomplicated explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples-attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to include rapidly developing technical applications in quantum physics. To complement the analytical solutions in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

R. Shankar has introduced major additions and updated key presentations in this second edition of Principles of Quantum

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Mechanics. New features of this innovative text include an entirely rewritten mathematical introduction, a discussion of Time-reversal invariance, and extensive coverage of a variety of path integrals and their applications. Additional highlights include: - Clear, accessible treatment of underlying mathematics - A review of Newtonian, Lagrangian, and Hamiltonian mechanics - Student understanding of quantum theory is enhanced by separate treatment of mathematical theorems and physical postulates - Unsurpassed coverage of path integrals and their relevance in contemporary physics The requisite text for advanced undergraduate- and graduate-level students, Principles of Quantum Mechanics, Second Edition is fully referenced and is supported by many exercises and solutions. The book's self-contained chapters also make it suitable for independent study as well as for courses in applied disciplines.

A first course in two of the 20th century's most exciting contributions to physics: special relativity and quantum theory. Historical material is incorporated into the exposition. Coverage is broad and deep, offering the instructor flexibility in presentation. Nearly every section contains at least one illustrative example (with all calculations), and each chapter has a wide selection of problems. Topics covered include relativistic dynamics, quantum mechanics, parity, quantum statistical physics, the nuclear shell model, fission, fusion, color and the strong interaction, gauge symmetries, and grand unification.

This introduction to Atomic and Molecular Physics explains how our present model of atoms and

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molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro-particles. It illustrates the wave model of particles by many examples and shows the limits of classical description. The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly. Many examples and problems with solutions should induce the reader to an intense active cooperation. Explains the fundamental concepts of Newtonian mechanics, special relativity, waves, fluids, thermodynamics, and statistical mechanics. Provides an introduction for college-level students of physics, chemistry, and engineering, for AP Physics students, and for general readers interested in advances in the sciences. In volume II, Shankar explains essential concepts, including electromagnetism, optics, and quantum mechanics. The book begins at the simplest level, develops the basics, and reinforces fundamentals, ensuring a solid foundation in the principles and methods of physics.

About The Book: A revision of a successful junior/senior level text, this introduction to elementary quantum mechanics clearly explains the properties of the most important quantum systems.

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The book emphasizes the applications of theory, and contains new material on particle physics, electron-positron annihilation in solids and the Mossbauer effect. It includes new appendices on such topics as crystallography, Fourier Integral Description of a Wave Group, and Time-Independent Perturbation Theory.

In Quantum Ring Theory Wladimir Guglinski presents a radical new theory concerning the fundamental nature of physics. Hailed as a intriguing theorist by Dr. Eugene Mallove, president of the New Energy Foundation, Guglinski argues that the current understanding of physics does not put forth an accurate model of the world. Instead, Guglinski argues that we must once again consider the "aether," a notion originally put forth by Greek philosophers. By considering the nature of "aether" and its role in physical processes, Guglinski is able to put forth a theory that reconciles Quantum Physics with the Theory of Relativity. To date, no other physical theory is able to accord for the intraction between these two fundamental areas of physics. As part of Guglinski's new theory, the author presents a new model of the neutron. Guglinski's model of the neutron has been confirmed by contemporary physical experiments: The first one was made by Don Borghi and published in 1993 by the American Institute of Physics; the second experiment was made by Elio Conte and Maria

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Pieralice, subsequently published in the magazine Infinite Energy in 1999. Currently, other experiments around the world are being conducted to test the remainder of Guglinski's theoretical work. Quantum Ring Theory presents for the first time in a complete text the theoretical work of Wladimir Guglinski. In this volume cutting edge theoretical work in physics is presented; theoretical work which may ultimately change the very way we understand the world.

A revision of a successful junior/senior level text, this introduction to elementary quantum mechanics clearly explains the properties of the most important quantum systems. Emphasizes the applications of theory, and contains new material on particle physics, electron-positron annihilation in solids and the Mossbauer effect. Includes new appendices on such topics as crystallography, Fourier Integral Description of a Wave Group, and Time-Independent Perturbation Theory.

One semester introduction to the major concepts of quantum mechanics. Emphasis is on abstract state vectors and on operators.

The exploration of the Universe, as conducted by physicists, astronomers, and cosmologists was one of the greatest intellectual adventures of the mid-twentieth century. This book, first published in 1971, tells the story of their achievements and the insight gained into the structure, history, working and scale of our Universe. Dr Sciamia describes the major

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components of the Universe as understood at the beginning of the 1970s: the stars, galaxies, radio-galaxies and quasi-stellar objects. He discusses in detail the red shift of the lines in their optical spectra, which leads to the idea that the Universe is expanding. Theoretical discussion of the expanding Universe suggests the possibility that intergalactic space may contain a significant quantity of matter and be the seat of important physical activity. The issues involved are thoroughly debated. Also discussed is the discover and significance of the 3'K' cosmic microwave radiation, its relation to the hot big bang and the helium problem, to cosmic high energy processes and to questions of isotropy.

"First published by Cappella Archive in 2008."

This textbook gives a connected mathematical derivation of the important mathematical results, concentrating on the central ideas without including elaborate detail or unnecessary rigour, and explaining in the simplest terms the symbols and concepts which confront the researcher in solid state, nuclear or high-energy physics.

This new edition of the unrivalled textbook introduces the fundamental concepts of quantum mechanics such as waves, particles and probability before explaining the postulates of quantum mechanics in detail. In the proven didactic manner, the textbook then covers the classical scope of introductory quantum mechanics, namely simple two-

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level systems, the one-dimensional harmonic oscillator, the quantized angular momentum and particles in a central potential. The entire book has been revised to take into account new developments in quantum mechanics curricula. The textbook retains its typical style also in the new edition: it explains the fundamental concepts in chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications. * The quantum mechanics classic in a new edition: written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Lalœ * As easily comprehensible as possible: all steps of the physical background and its mathematical representation are spelled out explicitly * Comprehensive: in addition to the fundamentals themselves, the book contains more than 350 worked examples plus exercises Claude Cohen-Tannoudji was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions. In 1997, Claude Cohen-Tannoudji, together with Steven Chu and William D. Phillips, was awarded the Nobel Prize in Physics for his research on laser cooling and trapping of neutral atoms. Bernard Diu

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was Professor at the Denis Diderot University (Paris VII). He was engaged in research at the Laboratory of Theoretical Physics and High Energy where his focus was on strong interactions physics and statistical mechanics. Franck Laloë was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris. His first assignment was with the University of Paris VI before he was appointed to the CNRS, the French National Research Center. His research was focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

A concise, lucid development of the fundamental structure of quantum mechanics from a thoroughly modern perspective. Focusing on physical and mathematical understanding, with over 60 problems, this compact introduction is invaluable for students and researchers in physics and other fields where quantum mechanics plays an important role

The Manchester Physics Series General Editors: D. J. Sandiford; F. Mandl; A. C. Phillips Department of Physics and Astronomy, University of Manchester Properties of Matter B. H. Flowers and E. Mendoza Optics Second Edition F. G. Smith and J. H.

Thomson Statistical Physics Second Edition F. Mandl Electromagnetism Second Edition I. S. Grant and W. R. Phillips Statistics R. J. Barlow Solid State Physics Second Edition J. R. Hook and H. E. Hall Quantum

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Mechanics F. Mandl Particle Physics Second Edition
B. R. Martin and G. Shaw the Physics of Stars
Second Edition A. C. Phillips Computing for
Scientists R. J. Barlow and A. R.

Barnett Electromagnetism, Second Edition is suitable for a first course in electromagnetism, whilst also covering many topics frequently encountered in later courses. The material has been carefully arranged and allows for flexibility in its use for courses of different length and structure. A knowledge of calculus and an elementary knowledge of vectors is assumed, but the mathematical properties of the differential vector operators are described in sufficient detail for an introductory course, and their physical significance in the context of electromagnetism is emphasised. In this Second Edition the authors give a fuller treatment of circuit analysis and include a discussion of the dispersion of electromagnetic waves.

Electromagnetism, Second Edition features: The application of the laws of electromagnetism to practical problems such as the behaviour of antennas, transmission lines and transformers. Sets of problems at the end of each chapter to help student understanding, with hints and solutions to the problems given at the end of the book. Optional "starred" sections containing more specialised and advanced material for the more ambitious reader. An Appendix with a thorough discussion of

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electromagnetic standards and units. Recommended by many institutions. Electromagnetism.

Second Edition has also been adopted by the Open University as the coursebook for its third level course on electromagnetism.

This book is written for high school and college students learning about special relativity for the first time. It will appeal to the reader who has a healthy level of enthusiasm for understanding how and why the various results of special relativity come about. All of the standard introductory topics in special relativity are covered: historical motivation, loss of simultaneity, time dilation, length contraction, velocity addition, Lorentz transformations, Minkowski diagrams, causality, Doppler effect, energy/momentum, collisions/decays, force, and 4-vectors. Additionally, the last chapter provides a brief introduction to the basic ideas of general relativity, including the equivalence principle, gravitational time dilation, and accelerating reference frames. The book features more than 100 worked-out problems in the form of examples in the text and solved problems at the end of each chapter. These problems, along with the discussions in the text, will be a valuable resource in any course on special relativity. The numerous examples also make this book ideal for self-study. Very little physics background is assumed (essentially none in the first half of the book). An intriguing aspect of special

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relativity is that it is challenging due to its inherent strangeness, as opposed to a heavy set of physics prerequisites. Likewise for the math prerequisite: calculus is used on a few occasions, but it is not essential to the overall flow of the book.

Ch. 1. Introduction and overview. 1.1. General introduction. 1.2. Basic properties of the Earth's atmosphere. 1.3. What is LTE? 1.4. Non-LTE situations. 1.5. The importance of non-LTE. 1.6. Some historical background. 1.7. Non-LTE models. 1.8. Experimental studies of non-LTE. 1.9. Non-LTE in planetary atmospheres. 1.10. References and further reading -- ch. 2. Molecular spectra. 2.1. Introduction. 2.2. Energy levels in diatomic molecules. 2.3. Energy levels in polyatomic molecules. 2.4. Transitions and spectral bands. 2.5. Properties of individual vibration-rotation lines. 2.6. Interactions between energy levels. 2.7. References and further reading -- ch. 3. Basic atmospheric radiative transfer. 3.1. Introduction. 3.2. Properties of radiation. 3.3. The radiative transfer equation. 3.4. The formal solution of the radiative transfer equation. 3.5. Thermodynamic equilibrium and local thermodynamic equilibrium. 3.6. The source function in non-LTE. 3.7. Non-LTE situations. 3.8. References and further reading -- ch. 4. Solutions to the radiative transfer equation in LTE. 4.1. Introduction. 4.2. Integration of the radiative transfer equation over height. 4.3. Integration of the radiative transfer equation over frequency. 4.4. Integration of the radiative transfer equation over solid angle. 4.5. References and further reading -- ch. 5. Solutions to the radiative transfer equation in non-LTE.

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5.1. Introduction. 5.2. Simple solutions for radiative transfer under non-LTE. 5.3. The full solution of the radiative transfer equation in non-LTE. 5.4. Integration of the RTE in non-LTE. 5.5. Intercomparison of non-LTE codes. 5.6. Parameterizations of the non-LTE cooling rate. 5.7. The Curtis matrix method. 5.8. References and further reading -- ch. 6. Non-LTE modelling of the Earth's atmosphere I: CO₂. 6.1. Introduction. 6.2. Useful approximations. 6.3. Carbon dioxide, CO₂. 6.4. References and further reading -- ch. 7. Non-LTE modelling of the Earth's atmosphere II: Other infrared emitters. 7.1. Introduction. 7.2. Carbon monoxide, CO. 7.3. Ozone, O₃. 7.4. Water vapour, H₂O. 7.5. Methane, CH₄. 7.6. Nitric oxide, NO. 7.7. Nitrogen dioxide, NO₂. 7.8. Nitrous oxide, N₂O. 7.9. Nitric acid, HNO₃. 7.10. Hydroxyl radical, OH. 7.11. Molecular oxygen atmospheric infrared bands. 7.12. Hydrogen chloride, HCl, and hydrogen fluoride, HF. 7.13. NO⁺. 7.14. Atomic Oxygen, O (3P), at 63[μ m]. 7.15. References and further reading -- ch. 8. Remote sensing of the non-LTE atmosphere. 8.1. Introduction. 8.2. The analysis of emission measurements. 8.3. Observations of carbon dioxide in emission. 8.4. Observations of ozone in emission. 8.5. Observations of water vapour in emission. 8.6. Observations of carbon monoxide in emission. 8.7. Observations of nitric oxide in emission. 8.8. Observations of other infrared emissions. 8.9. Rotational non-LTE. 8.10. Absorption measurements. 8.11. Simulated limb emission spectra at high resolution. 8.12. Simulated Nadir emission spectra at high resolution. 8.13. Non-LTE retrieval schemes. 8.14.

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References and further reading -- ch. 9. Cooling and heating rates. 9.1. Introduction. 9.2. CO₂ cooling. 9.3. O₃ cooling. 9.4. H₂O cooling. 9.5. NO cooling. 9.6. O(3P) cooling. 9.7. Summary of cooling rates. 9.8. CO₂ solar heating. 9.9. References and further reading -- ch. 10. Non-LTE in planetary atmospheres. 10.1. Introduction. 10.2. The terrestrial planets: Mars and Venus. 10.3. A non-LTE model for the Martian and Venusian atmospheres. 10.4. Mars. 10.5. Venus. 10.6. Outer planets. 10.7. Titan. 10.8. Comets. 10.9. References and further reading.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780471873730 .

Our understanding of the physical world was revolutionized in the twentieth century — the era of “modern physics”. This book, aimed at the very best students, presents the foundations and frontiers of today's physics. It focuses on the following topics: quantum mechanics; applications in atomic, nuclear, particle, and condensed-matter physics; special relativity; relativistic quantum mechanics, including the Dirac equation and Feynman diagrams; quantum fields; and general relativity. The aim is to cover these topics in sufficient depth such that things “make sense” to

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students and they can achieve an elementary working knowledge of them. Many problems are included, a great number of which take dedicated readers just as far as they want to go in modern physics. Although the book is designed so that one can, in principle, read and follow the text without doing any of the problems, the reader is urged to attempt as many of them as possible. Several appendices help bring the reader up to speed on any additional required mathematics. With very few exceptions, the reader should then find the text, together with the appendices and problems, to be self-contained. Although there are many textbooks that deal with the formal apparatus of quantum mechanics (QM) and its application to standard problems, none take into account the developments in the foundations of the subject which have taken place in the last few decades. There are specialized treatises on various aspects of the foundations of QM, but none that integrate those topics with the standard material. This book aims to remove that unfortunate dichotomy, which has divorced the practical aspects of the subject from the interpretation and broader implications of the theory. In this edition a new chapter on quantum information is added. As the topic is still in a state of rapid development, a comprehensive treatment is not feasible. The emphasis is on the fundamental principles and some key applications, including quantum cryptography, teleportation of states, and quantum computing. The impact of quantum information theory on the foundations of quantum mechanics is discussed. In addition, there are minor revisions to several chapters. The book is

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intended primarily as a graduate level textbook, but it will also be of interest to physicists and philosophers who study the foundations of QM. Parts of it can be used by senior undergraduates too.

Dr. S. B. Patel Is Professor Of Physics, Bombay University. He Has Taught Physics For More Than Twenty Years At The B. Sc. And M.Sc Levels At Ramnarain Ruia College, Bombay. He Earned His Ph. D In Nuclear Physics From Tifr-Bombay University In 1976. Later He Was Involved In Post-Doctoral Research At The Lawrence Berkeley Laboratory, California. His Field Of Specialization Is Nuclear Spectroscopy.

Written in an informal yet substantive style that is a joy to read, this book provides a uniquely engaging, in-depth introduction to the concepts of quantum physics and their practical implementation, and is filled with clear, thorough explanations that help readers develop insight into physical ideas and master techniques of problem-solving using quantum mechanics. Fully explores the concepts and strategies of quantum mechanics, showing the connections among the physical concepts that govern the atomic and sub-atomic domain of matter, and examining how these concepts manifest themselves in the mathematical machinery of quantum mechanics. Focuses on the explanations and motivations of the postulates that underlie the machinery of quantum mechanics, and applies simple, single-particle systems in one dimension. Illuminates discussions of ideas and techniques with a multitude of examples that show not just the answers but also the reasoning behind them, and adds dimension to the subject with historical,

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biographical and philosophical references throughout. Designed for a wide range of readers interested in various branches of physics and engineering physics. This textbook, now in its third edition, provides a formative introduction to the structure of matter that will serve as a sound basis for students proceeding to more complex courses, thus bridging the gap between elementary physics and topics pertaining to research activities. The focus is deliberately limited to key concepts of atoms, molecules and solids, examining the basic structural aspects without paying detailed attention to the related properties. For many topics the aim has been to start from the beginning and to guide the reader to the threshold of advanced research. This edition includes four new chapters dealing with relevant phases of solid matter (magnetic, electric and superconductive) and the related phase transitions. The book is based on a mixture of theory and solved problems that are integrated into the formal presentation of the arguments. Readers will find it invaluable in enabling them to acquire basic knowledge in the wide and wonderful field of condensed matter and to understand how phenomenological properties originate from the microscopic, quantum features of nature.

Atoms and Molecules describes the basic properties of atoms and molecules in terms of group theoretical methods in atomic and molecular physics. The book reviews mathematical concepts related to angular momentum properties, finite and continuous rotation groups, tensor operators, the Wigner-Eckart theorem, vector fields, and vector spherical harmonics. The text

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also explains quantum mechanics, including symmetry considerations, second quantization, density matrices, time-dependent, and time-independent approximation methods. The book explains atomic structure, particularly the Dirac equation in which its nonrelativistic approximation provides the basis for the derivation of the Hamiltonians for all important interactions, such as spin-orbit, external fields, hyperfine. Along with multielectron atoms, the text discusses multiplet theory, the Hartree-Fock formulation, as well as the electromagnetic radiation fields, their interactions with atoms in first and higher orders. The book explores molecules and complexes, including the Born-Oppenheimer approximation, molecular orbitals, the self-consistent field method, electronic states, vibrational and rotational states, molecular spectra, and the ligand field theory. The book can prove useful for graduate or advanced students and academicians in the field of general and applied physics.

Learning classical mechanics doesn't have to be hard. What if there was a way to learn classical mechanics without all the usual fluff? What if there were a book that allowed you to see the whole picture and not just tiny parts of it? Thoughts like this are the reason that No-Nonsense Classical Mechanics now exists. What will you learn from this book? Get to know all fundamental mechanics concepts — Grasp why we can describe classical mechanics using the Lagrangian formalism, the Newtonian formalism, or the Hamiltonian formalism and how these frameworks are connected. Learn to describe classical mechanics mathematically — Understand the

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meaning and origin of the most important equations: Newton's second law, the Euler-Lagrange equation and Hamilton's equations. Master the most important classical mechanics systems — Read fully annotated, step-by-step calculations and understand the general algorithm we use to describe them. Get an understanding you can be proud of — Learn about beautiful and deep insights like Noether's theorem or Liouville's theorem and how classical mechanics emerges in a proper limit of special relativity, quantum mechanics and general relativity. No-Nonsense Classical Mechanics is the most student-friendly book on classical mechanics ever written. Here's why. First of all, it's is nothing like a formal university lecture. Instead, it's like a casual conversation with a more experienced student. This also means that nothing is assumed to be "obvious" or "easy to see". Each chapter, each section, and each page focuses solely on the goal to help you understand. Nothing is introduced without a thorough motivation and it is always clear where each equation comes from. The book contains no fluff since unnecessary content quickly leads to confusion. Instead, it ruthlessly focuses on the fundamentals and makes sure you'll understand them in detail. The primary focus on the readers' needs is also visible in dozens of small features that you won't find in any other textbook. In total, the book contains more than 100 illustrations that help you understand the most important concepts visually. In each chapter, you'll find fully annotated equations and calculations are done carefully step-by-step. This makes it much easier to understand what's going on in. Whenever a concept is

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used that was already introduced previously there is a short sidenote that reminds you where it was first introduced and often recites the main points. In addition, there are summaries at the beginning of each chapter that make sure you won't get lost.

Problems after each chapter

'Quantum Mechanics' is a comprehensive introduction to quantum mechanics for advanced undergraduate students in physics. It provides the reader with a strong conceptual background in the subject, extensive experience with the necessary mathematical background, as well as numerous visualizations of quantum concepts and phenomena.

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