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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.

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Claude Cohen-Tannoudji is 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

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Interests were optical pumping,  
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Claude Cohen-Tannoudji (born 1 April  
1933) is a French physicist. He shared  
the 1997 Nobel Prize in Physics with  
Steven Chu and William Daniel  
Phillips for research in methods of  
laser cooling and trapping atoms.  
Currently he is still an active  
researcher, working at the École  
normale supérieure (Paris).

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Edition by Claude Cohen-Tannoudji,  
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interests were optical pumping,  
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Claude Cohen-Tannoudji ...~~

Quantum mechanics: non-relativistic  
theory by L.D. Landau and E.M.  
Lifshitz Pergamon Press, 1977; ISBN:  
0080209408 On reserve and in  
stacks. Excellent reference. Quantum  
mechanics by Claude Cohen-  
Tannoudji New York : Wiley, c1977  
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Claude Cohen-Tannoudji is Professor of Physics at the College de France. He is the coauthor of Quantum Mechanics, published by Wiley. Dr. Cohen-Tannoudji is a member of the French Academy of Sciences and a Foreign Associate of the National Academy of Sciences in the United

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States. He is a corecipient of the 1997 Nobel Prize in 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-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

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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 Laloë \* 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

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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 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

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Tannoudji 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.

This didactically unrivalled textbook and timeless reference by Nobel Prize Laureate Claude Cohen-Tannoudji separates essential underlying principles of quantum mechanics from specific applications and practical examples and deals with each of them in a different section. Chapters emphasize principles; complementary sections supply applications. The book provides a qualitative introduction to quantum mechanical ideas; a systematic, complete and elaborate presentation of all the mathematical

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tools and postulates needed, including a discussion of their physical content and applications. The book is recommended on a regular basis by lecturers of undergraduate courses.

This new, third volume of Cohen-Tannoudji's groundbreaking textbook covers advanced topics of quantum mechanics such as uncorrelated and correlated identical particles, the quantum theory of the electromagnetic field, absorption, emission and scattering of photons by atoms, and quantum entanglement. Written in a didactically unrivalled manner, the textbook explains the fundamental concepts in seven chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications. \*

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Completing the success story: the third and final volume of the quantum mechanics textbook written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Laloë \* 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 comes with a wealth of elaborately explained examples and applications  
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

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focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

" ... this great work ought to be mastered by every postgraduate research student in theoretical physics ... there is no other book like it." — Proceedings of the Physical Society (England) Simple enough for students yet sufficiently comprehensive to serve as a reference for working physicists, this classic text initially appeared as a two-volume French edition and is now available in this convenient, all-in-one-book English translation. Formalism and its interpretation receive a detailed treatment in the first volume, starting with the origins of quantum theory and examinations of matter waves and

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Turnbull's Solution, one-dimensional quantized systems, the uncertainty relations, and the mathematical framework and physical content of formalism. An analysis of simple systems includes a look at the separation of variables, scattering problems and phase shifts, the Coulomb interaction, and the harmonic oscillator. Volume II begins with an exploration of symmetries and invariance, including a consideration of angular momentum, identical particles and the Pauli exclusion principle, invariance and conservation laws, and time reversal. Methods of approximation discussed include those involving stationary perturbations, the equation of motion, variational method, and collision theory. The final chapters review the elements of relativistic quantum

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mechanics, and each volume concludes with useful appendixes. The book has been hailed for the clarity and coherence of its presentation, and its scrupulous attention to detail.

Covering a number of important subjects in quantum optics, this textbook is an excellent introduction for advanced undergraduate and beginning graduate students, familiarizing readers with the basic concepts and formalism as well as the most recent advances. The first part of the textbook covers the semi-classical approach where matter is quantized, but light is not. It describes significant phenomena in quantum optics, including the principles of lasers. The second part is devoted to the full quantum description of light and its interaction with matter, covering

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Topics such as spontaneous emission, and classical and non-classical states of light. An overview of photon entanglement and applications to quantum information is also given. In the third part, non-linear optics and laser cooling of atoms are presented, where using both approaches allows for a comprehensive description. Each chapter describes basic concepts in detail, and more specific concepts and phenomena are presented in 'complements'.

This book presents a comprehensive overview of the spectacular advances seen in atomic physics during the last 50 years. The authors explain how such progress was possible by highlighting connections between developments that occurred at different times. They discuss the new

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perspectives and the new research fields that look promising. The emphasis is placed, not on detailed calculations, but rather on physical ideas. Combining both theoretical and experimental considerations, the book will be of interest to a wide range of students, teachers and researchers in quantum and atomic physics. Contents:

General Introduction  
General Background  
"Light: A Source of Information on Atoms: "Optical Methods  
Linear Superpositions of Internal Atomic States  
Resonance Fluorescence  
Advances in High Resolution Spectroscopy  
"Atom-Photon Interactions: A Source of Perturbations for Atoms Which Can Be Useful: "Perturbations Due to a Quasi Resonant Optical Excitation  
Perturbations Due to a High Frequency Excitation  
"Atom-Photon

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Interactions: A Simple System for Studying Higher Order Effects: "Multiphoton Processes Between Discrete States Photoionization of Atoms in Intense Laser fields" Atom-Photon Interactions: A Tool for Controlling and Manipulating Atomic Motion: "Radiative Forces Exerted on a Two-Level Atom at Rest Laser Cooling of Two-Level Atoms Sub-Doppler Cooling. Sub-Recoil Cooling Trapping of Particles" Ultracold Interactions and Their Control: "Two-Body Interactions at Low Temperatures Controlling Atom-Atom Interactions" Exploring Quantum Interferences with Few Atoms and Photons: "Interference of Atomic de Broglie Waves Ramsey Fringes Revisited and Atomic Interferometry Quantum Correlations. Entangled States" Degenerate Quantum Gases: "Emergence of

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Quantum mechanics is a very successful theory that has impacted on many areas of physics, from pure theory to applications. However, it is difficult to interpret, and philosophical contradictions and counterintuitive results are apparent at a fundamental level. In this book, Laloë presents our current understanding of the theory. The book explores the basic questions and difficulties that arise with the theory of quantum mechanics. It examines the various interpretations that have been proposed, describing and comparing them and discussing their success and difficulties. The book is ideal for researchers in physics and mathematics who want to know more about the problems faced

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In quantum mechanics but who do not have specialist knowledge in the subject. It will also interest philosophers of science, as well as all scientists who are curious about quantum physics and its peculiarities.

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