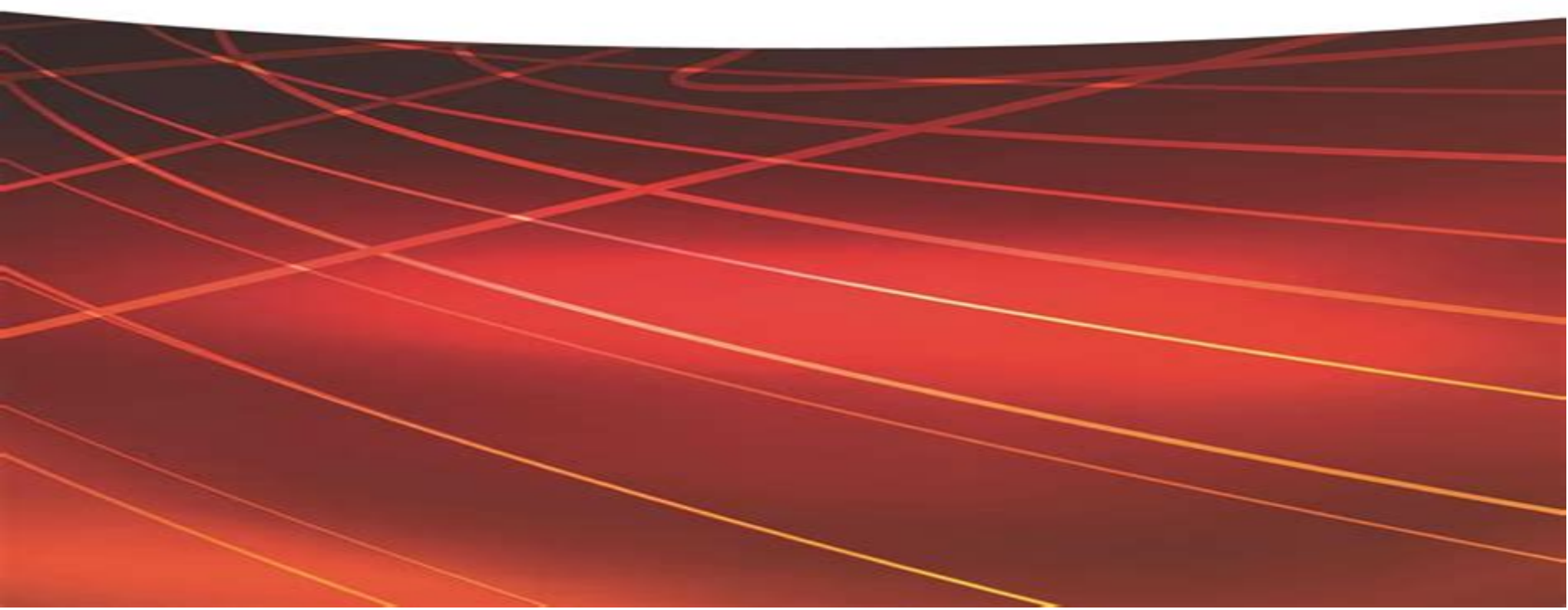


Claude Cohen-Tannoudji, Bernard Diu, and
Franck Laloë

Quantum Mechanics

Volume I: Basic Concepts, Tools,
and Applications

Second Edition



Quantum Mechanics Volume I

**Claude Cohen-Tannoudji, Bernard
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Quantum Mechanics Volume I:

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Beginning students of quantum mechanics frequently experience difficulties separating essential underlying principles from the specific examples to which these principles have been historically applied Nobel Prize winner Claude Cohen Tannoudji and his colleagues have written this book to eliminate precisely these difficulties Fourteen chapters provide a clarity of organization careful attention to pedagogical details and a wealth of topics and examples which make this work a textbook as well as a timeless reference allowing to tailor courses to meet students specific needs Each chapter starts with a clear exposition of the problem which is then treated and logically develops the physical and mathematical concept These chapters emphasize the underlying principles of the material undiluted by extensive references to applications and practical examples which are put into complementary sections The book begins with a qualitative introduction to quantum mechanical ideas

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others Paying close attention to both primary and secondary sources Constructing Quantum Mechanics provides an in depth analysis of the heroic struggle to come to terms with the wealth of mostly spectroscopic data that eventually gave us modern quantum mechanics

Quantum Mechanics Nouredine Zettili, 2009-01-22 Quantum Mechanics Concepts and Applications provides a clear balanced and modern introduction to the subject Written with the student's background and ability in mind the book takes an innovative approach to quantum mechanics by combining the essential elements of the theory with the practical applications it is therefore both a textbook and a problem solving book in one self contained volume Carefully structured the book starts with the experimental basis of quantum mechanics and then discusses its mathematical tools Subsequent chapters cover the formal foundations of the subject the exact solutions of the Schrödinger equation for one and three dimensional potentials time independent and time dependent approximation methods and finally the theory of scattering The text is richly illustrated throughout with many worked examples and numerous problems with step by step solutions designed to help the reader master the machinery of quantum mechanics The new edition has been completely updated and a solutions manual is available on request Suitable for senior undergraduate courses and graduate courses

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