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Descrizione fisica	1 online resource (XIII, 348 p. 19 illus. in color.)
Collana	Undergraduate Lecture Notes in Physics, , 2192-4791
Disciplina	530.12
Soggetti	Quantum theory Mathematical physics Quantum Physics Mathematical Applications in the Physical Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	From the Contents: Part I Formalism and Interpretation -- Introduction: Nonlocal or Unreal? -- Formalism II: Infinite-Dimensional Hilbert Spaces -- Interpretation -- Part II A Single Scalar Particle in an External Potential -- Two-Dimensional Problems.
Sommario/riassunto	The book covers the content of a typical higher undergraduate course of the theory of Quantum Mechanics. The focus is on the general principles of quantum mechanics and the clarification of its terminology: What exactly is a Hilbert space? What is a hermitean operator? A tensor product? An entangled state? In what sense does a wave function constitute a vector? A separate chapter discusses the many open questions regarding the interpretation of the postulates.