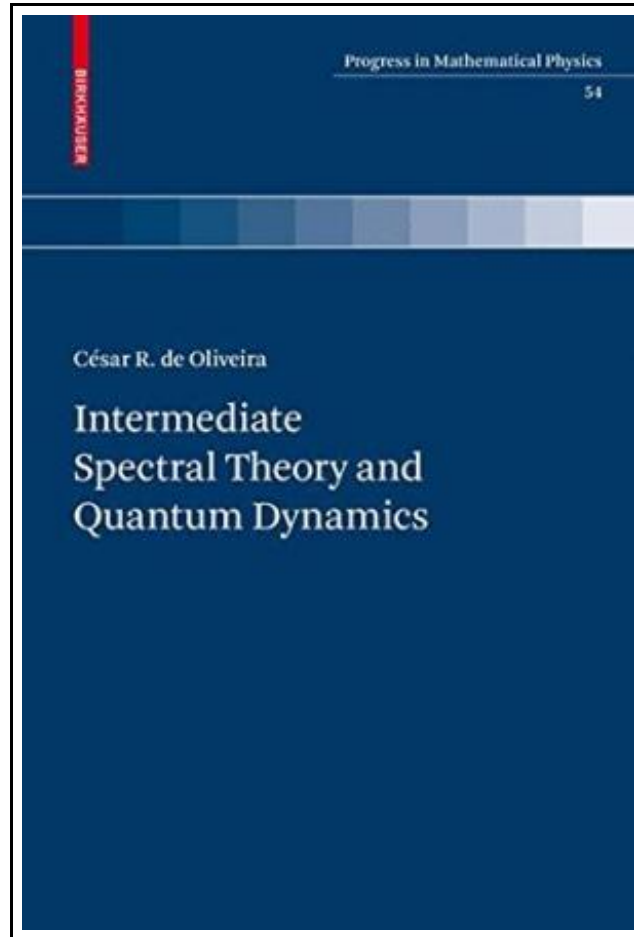


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INTERMEDIATE SPECTRAL THEORY AND QUANTUM DYNAMICS



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Birkhauser. Hardcover. Book Condition: New. Hardcover. 410 pages. Dimensions: 9.1in. x 6.1in. x 1.1in. The spectral theory of linear operators in Hilbert spaces is the most important tool in the mathematical formulation of quantum mechanics; in fact, linear operators and quantum mechanics have had a symbiotic relationship. However, typical physics textbooks on quantum mechanics give just a rough sketch of operator theory, occasionally treating linear operators as matrices in finite-dimensional spaces; the implicit justification is that the details of the theory of unbounded operators are involved and those texts are most interested in applications. Further, it is also assumed that mathematical intricacies do not show up in the models to be discussed or are skipped by heuristic arguments. In many occasions some questions, such as the very definition of the hamiltonian domain, are not touched, leaving an open door for controversies, ambiguities and choices guided by personal tastes and ad hoc prescriptions. All in all, sometimes a blank is left in the mathematical background of people interested in nonrelativistic quantum mechanics. Quantum mechanics was the most profound revolution in physics; it is not natural to our common sense (check, for instance, the wave-particle duality) and the mathematics may become crucial when intuition fails. Even some very simple systems present nontrivial questions whose answers need a mathematical approach. For example, the Hamiltonian of a quantum particle confined to a box involves a choice of boundary conditions at the box ends; since different choices imply different physical models, students should be aware of the basic difficulties intrinsic to this (in principle) very simple model, as well as in more sophisticated situations. The theory of linear operators and their spectra constitute a wide field and it is expected that the selection of topics in this book will help to fill this theoretical gap. Of course this selection is greatly biased toward the preferences of the author. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Hardcover.



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