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V.I. Kogan, V.M. Galitskiy

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Written by a pair of distinguished Soviet mathematicians, this compilation presents 160 lucidly expressed problems in nonrelativistic quantum mechanics plus completely worked-out solutions. Some were drawn from the authors' courses at the Moscow Institute of Engineering, but most were prepared especially for this book. A high-level supplement rather than a primary text, it constitutes a masterful complement to advanced undergraduate and graduate texts and courses in quantum mechanics.

The mathematics employed in the proofs of the problems—asymptotic expansions of functions, Green's functions, use of different representation spaces, and simple limiting cases—are detailed and comprehensive. Virtually no space is devoted to the physical statements underlying the problems, since this is usually covered in books on quantum mechanics. Teachers and students will find this volume particularly valuable in terms of its advanced mathematics and detailed presentations, its coverage of scattering theory, and its helpful graphs and explanatory figures.

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