



Supersymmetry in Quantum Mechanics

Fred Cooper, Avinash Khare, Uday Sukhatme

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This text provides an elementary description of supersymmetric quantum mechanics which aims to complement the traditional coverage found in the existing quantum mechanics textbooks. It sets out to give physicists a fresh outlook and new ways of handling quantum-mechanical problems and also leads to improved approximation techniques for dealing with potentials of interest in all branches of physics. It provides an algebraic approach to obtaining eigenstates. This volume has been written to be accessible to students in advanced undergraduate quantum mechanics courses. Problems have been given at the end of each chapter, along with complete solutions to all the problems. The book also includes material of interest in current research not usually discussed in traditional courses on quantum mechanics, such as the connection between exact solutions to classical soliton problems and isospectral quantum Hamiltonians, and the relation to the inverse scattering problem. The intended readership includes graduate and advanced undergraduate students and researchers in quantum, mathematical, theoretical and high-energy physics.

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