



Many-Particle Physics (Physics of Solids and Liquids)

Gerald D. Mahan

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This comprehensive textbook utilizes Green's functions and the equations derived from them to solve real physical problems in solid-state theoretical physics. Green's functions are used to describe processes in solids and quantum fluids and to address problems in areas such as electron gas, polarons, electron transport, optical response, superconductivity and superfluidity. The updated third edition features several new chapters on different mean-free paths, Hubbard model, Coulomb blockade, and the quantum Hall effect. New sections have been added, while original sections have been modified to include recent applications. This text is ideal for third- or fourth-year graduate students and includes numerous study problems and an extensive bibliography.

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