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in 1D; 5.3. Bound States in 2D; 5.4. Bound States in 3D
5.5. Bound States in Anisotropic Ferromagnets6. Perturbation Theory in Planar Ferromagnets; 6.1. Bogoliubov Transformation; 6.2. The Dyson Matrix Equation; 6.3. First-order Perturbation Theory; 6.4. Second-Order Perturbation Theory; 7. Spin Waves in Non-Collinear Systems; 7.1. Local Axis Transformation and Boson Hamiltonian; 7.2. Harmonic Approximation and Bogoliubov Transformation; 7.3. Ground-State Configurations; 7.4. Neel Antiferromagnet; 7.5. Antiferromagnetism in Close-Packed Lattices; 7.6. Order by Quantum and Thermal Disorder; 7.7. Frustration by Competing Interactions: Square Lattice
7.8. Frustration by Competing Interactions: Triangular Lattice7.9. Frustration by Competing Interaction: Honeycomb Lattice; 7.10. Neutron Scattering Cross-Section for a Helimagnet; 8. Spin Waves in Multilayers; 8.1. Spin Green Functions and Random Phase Approximation; 8.2. Multilayers; 8.3. Bilayer; 8.4. Trilayer; 8.5. Classical Spin Waves in Multilayers; 8.6. Classical Spin Waves in a Semi-Infinite Medium; 9. Spin Waves in Systems with Long Range Interaction; 9.1. Dipole-Dipole Interaction; 9.2. Dipolar Sums and Ewald's Method; 9.3. Ground-State Configuration of ErBa2Cu3O6+x
9.4. CEF Calculation for ErBa2Cu3O6+x9.5. Spin Waves in ErBa2Cu3O7; 10. Long Range Interactions in 2D Systems; 10.1. Dipole-Dipole Interaction in 2D Systems; 10.2. Planar Rotator Model with Long Range Interactions; 10.3. Stripes and Checkerboards in 2D Ising Model; 10.4. Monte Carlo Simulation; References; Index

Sommario/riassunto

The aim of this advanced textbook is to provide the reader with a comprehensive explanation of the ground state configurations, the spin wave excitations and the equilibrium properties of spin lattices described by the Ising-Heisenberg Hamiltonians in the presence of short (exchange) and long range (dipole) interactions.The arguments are presented in such detail so as to enable advanced undergraduate and graduate students to cross the threshold of active research in magnetism by using both analytic calculations and Monte Carlo simulations.Recent results about unorthodox spin configurations suc

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