



Statistical Mechanics of Magnetic Excitations: From Spin Waves to Stripes and Checkerboards (Series on Advances in Statistical Mechanics)

By Enrico Rastelli

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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 such as stripes and checkerboards should then excite theoreticians in the field of magnetism and magnetic materials research.

Readership: Students and professionals interested in the fields of theoretical magnetism and magnetic material research.

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Editorial Review

From the Inside Flap

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