



# Ferrohydrodynamics (Dover Books on Physics)

*R. E. Rosensweig*

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The behavior and dynamics of magnetic fluids receive a coherent, comprehensive treatment in this high-level study, which encompasses electromagnetism and fields. One of the best classic introductions to the subject, the text covers most aspects of particle interaction, from magnetic repulsion to quasi-stable equilibriums and ferrohydrodynamic instabilities. The self-contained approach is suitable for graduate students and researchers in physics, engineering, and applied mathematics.

The initial chapters offer careful preparation in the most important aspects of magnetism and include introductory material on fluid dynamics. These provide the groundwork for the development of a rigorous description of stress in magnetic fields, leading to formulation of the equations of motion and treatment of the surface boundary conditions. Coverage of numbers of equilibrium flows emphasizes use of the generalized Bernoulli equation as a unifying concept. The text concludes with an examination of the basic instability flow and a pair of helpful appendixes.

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