



Non-Linear Theory and Fluctuations: Plasma Electrodynamics: Non-linear Theory and Fluctuations v. 2 (Monographs in Natural Philosophy)

A. I. Akhiezer, I. A. Akhiezer, R. V. Polovin

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Plasma Electrodynamics, Volume 2: Non-Linear Theory and Fluctuations deals with the theory of nonlinear waves in a collisionless plasma, including the quasilinear theory, the theory of plasma turbulence, and the theory of electromagnetic fluctuations in a plasma. Topics covered range from nonlinear high-frequency waves in a cold plasma to the theory of plasma oscillations in the quasilinear approximation. Nonlinear wave-particle interactions are also discussed, along with scattering and transformation of waves in a plasma.

Comprised of six chapters, this volume begins with a study of nonlinear waves in a collisionless plasma, focusing on nonlinear high-frequency waves in a cold plasma; Langmuir waves in a non-relativistic plasma; and longitudinal, transverse, and coupled longitudinal-transverse waves in a relativistic plasma. After expounding on the quasilinear theory, which describes the effects of the first approximation in terms of the plasma wave energy, the nonlinear interaction of waves and particles is considered. The last three chapters explore the theory of electromagnetic fluctuations in a plasma; the theory of scattering processes and the transformation of waves in a plasma; and the scattering of charged particles in a plasma. The polarization energy losses when charged particles move in a plasma are calculated.

This book will be of interest to physicists.

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