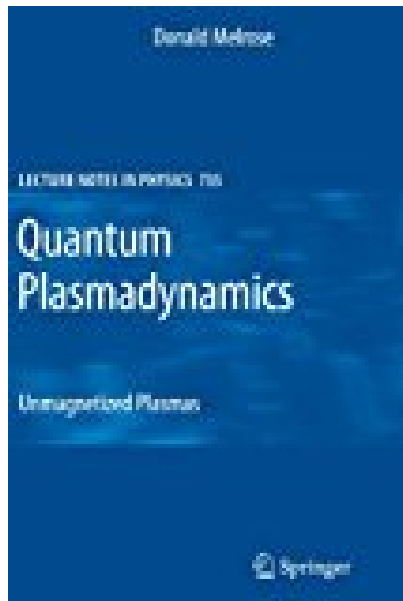


Quantum Plasmadynamics Unmagnetized Plasmas Lecture Notes in Physics



BOOK DETAILS

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BOOK SYNOPSIS

Quantum Plasmadynamics is a synthesis of the kinetic theory of plasmas and quantum electrodynamics (QED). In this volume, the approach applied to unmagnetized plasmas in volume 1 is generalized to magnetized plasmas. First, a covariant version of nonquantum kinetic theory is formulated for single-particle (emission and scattering) processes and the collective-medium response. The relativistic quantum treatment is based on solutions of Diracs equation for an electron in a magnetostatic field, and single-particle processes are treated using a magnetized version of QED. The response of an electron gas is derived by generalizing the derivation of the response of the magnetized vacuum.

QUANTUM PLASDYNAMICS UNMAGNETIZED PLASMAS LECTURE

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