

## Introduction To Plasma Physics With Space And Laboratory Applications

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Book description. Introducing basic principles of plasma physics and their applications to space, laboratory and astrophysical plasmas, this new edition provides updated material throughout. Topics covered include single-particle motions, kinetic theory, magnetohydrodynamics, small amplitude waves in hot and cold plasmas, and collisional effects.

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The growing number of scientific and technological applications of plasma physics in the field of aerospace engineering requires graduate students and professionals to understand their principles. This book is intended as a reading guide that is accessible to students and non-specialists. It covers the basic kinetic theory of neutral gases in equilibrium, as well as the physical description of plasmas as a statistical system of interacting particles, and advanced concepts of kinetic theory.

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It has often been said that 99% of the matter in the universe is in the plasma state; that is, in the form of an electrified gas with the atoms dissociated into positive ions and negative electrons. This estimate may not be very accurate, but it is certainly a reasonable one in view of the fact that stellar interiors and atmospheres, gaseous nebulae, and much of the interstellar hydrogen are plasmas.

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Summary. A complete mathematical model of a plasma requires three basic elements: first, the motion of all particles must be determined for some assumed electric and magnetic field configuration; second, the current and charge densities must be computed from the particle trajectories; and third, the electric and magnetic fields must be self-consistently determined from the currents and charges, taking into account both internal and external sources.

**Single-Particle Motions (Chapter 3) - Introduction to ...**

The plasmas, which will be presented in this chapter, resemble gases, but because they are constituted of free charged particles, the physics that govern their dynamics is radically different. First, the charged particles' motion is determined by electromagnetic fields, and second, the fields are created by charge and current densities caused by these particles.