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Introduction to Plasma Physics: With Space, Laboratory and ...

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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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Introduction to Plasma Physics is the standard text for an introductory lecture course on plasma physics. The text's six sections lead readers systematically and comprehensively through the fundamentals of modern plasma physics.

Introduction to Plasma Physics (Plasma Physics Series ...

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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.

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