

## Introduction to Plasma Physics: With Space and Laboratory Applications

D. A. Gurnett, A. Bhattacharjee



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## **Introduction to Plasma Physics: With Space and Laboratory Applications** D. A. Gurnett, A. Bhattacharjee

Emphasizing basic plasma theory, with applications to both space and laboratory plasmas, the topics covered in this text include single-particle motions, kinetic theory, magnetohydrodynamics, small amplitude waves in both cold and hot plasmas, nonlinear phenomena and collisional effects. Applications comprise planetary magnetospheres and radiation belts, the confinement and stability of plasmas in fusion devices, the propagation of discontinuities and shock waves in the solar wind, and the analysis of various types of plasma waves and instabilities that can occur in planetary magnetospheres and laboratory plasma devices.

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