



An Introduction to the Linear Theories and Methods of Electrostatic Waves in Plasmas

By William Jones

Springer Dez 2012, 2012. Taschenbuch. Book Condition: Neu. 235x155x17 mm. Neuware - Modern plasma physics, encompassing wave-particle interactions and collective phenomena characteristic of the collision-free nature of hot plasmas, was founded in 1946 when I. D. Landau published his analysis of linear (small amplitude) waves in such plasmas. It was not until some ten to twenty years later, however, with impetus from the then rapidly developing controlled fusion field, that sufficient attention was devoted, in both theoretical and experimental research, to elucidate the importance and ramifications of Landau's original work. Since then, with advances in laboratory, fusion, space, and astrophysical plasma research, we have witnessed important developments toward the understanding of a variety of linear as well as nonlinear plasma phenomena, including plasma turbulence. Today, plasma physics stands as a well-developed discipline containing a unified body of powerful theoretical and experimental techniques and including a wide range of applications. As such, it is now frequently introduced in university physics and engineering curricula at the senior and first-year-graduate levels. A necessary prerequisite for all of modern plasma studies is the understanding of linear waves in a temporally and spatially dispersive medium such as a plasma, including the kinetic...



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