Ichimaru

Statistical Plasma Physics, Volume II

Condensed Plasmas

The aim of this book is to elucidate a number of basic topics in physics of dense plasmas that interface with condensed matter physics, atomic physics, nuclear physics, and astrophysics. The different plasmas examined here include astrophysical dense plasmas - like those found in the interiors, surfaces, and outer envelopes of such astronomical objects as neutron stars, white dwarfs, the Sun, brown dwarfs, and giant planets. Condensed plasmas in laboratory settings cover metals and alloys (solid, amorphous, liquid, and compressed), semiconductors (electrons, holes, and their droplets), and various realizations of dense plasmas (shock-compressed, diamond-anvil cell, metal vaporization, pinch discharges, and more.)Statistical Plasma Physics: Volume II, Condensed Plasmas is intended as a graduate-level textbook on the subjects of condensed plasma physics, material sciences, and condensed-matter astrophysics. It will also be useful to researchers in the fields of plasma physics, condensed-matter physics, atomic physics, nuclear physics, and astrophysics.

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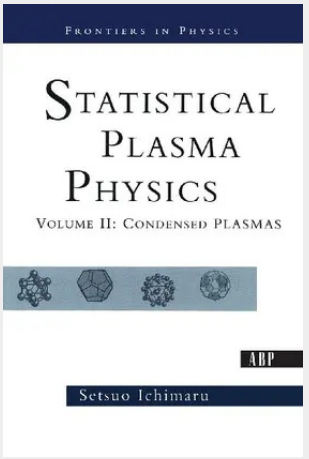

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