

Introduction to Plasma Physics

By R.J Goldston, P.H Rutherford

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. Sections on single-particle motion, plasmas as fluids, and collisional processes in plasmas lay the groundwork for a thorough understanding of the subject. The authors take care to place the material in its historical context for a rich understanding of the ideas presented. They also emphasize the importance of medical imaging in radiotherapy, providing a logical link to more advanced works in the area. The text includes problems, tables, and illustrations as well as a thorough index and a complete list of references.

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Introduction to Plasma Physics Summary Details

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Review

“This is one of the present standard textbooks on fundamentals of modern plasma physics. The book contains exercises to control the newly obtained knowledge. A list of books for further reading and an index of scientific keywords are given at the end of the work. The book is of interest for both graduate and advanced undergraduate students in physics, especially plasma physics and astrophysics and related engineering.”

—Claudia-Veronika Meister (Potsdam)

This is one of the present standard textbooks on fundamentals of modern plasma physics. The book contains exercises to control the newly obtained knowledge. A list of books for further reading and an index of scientific keywords are given at the end of the work. Two disks with computer programs in Macintosh and MS Windows format on area-preserving maps and Hamiltonian chaos are added. The book is of interest for both graduate and advanced undergraduate students in physics, especially plasma physics and astrophysics and related engineering.

-Claudia-Veronika Meister (Potsdam)

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