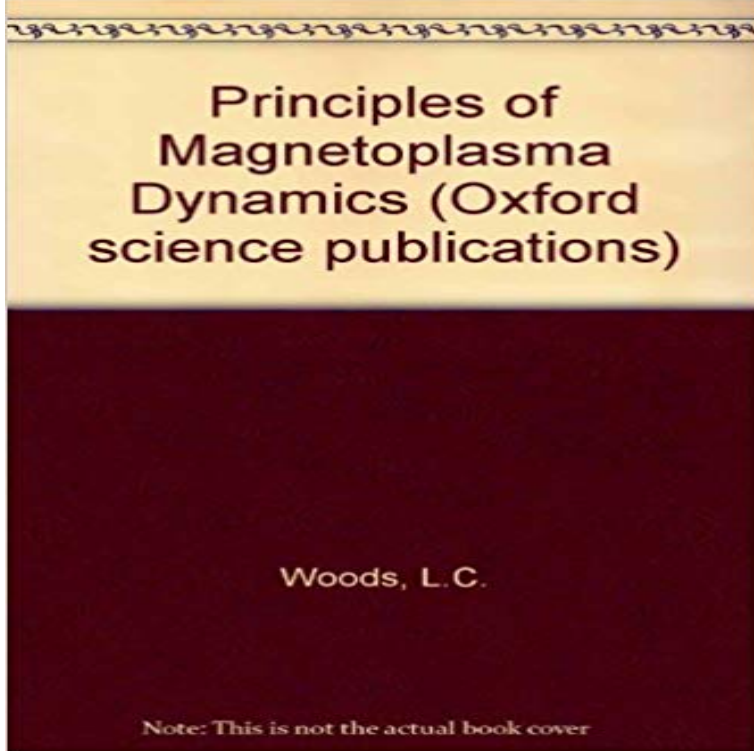


Principles of Magnetoplasma Dynamics



Controlled fusion research explores the properties of man-made plasmas confined in toroidal machines (tokamaks) by intense magnetic fields. Beginning with the elementary principles, the author gives a rigorous and complete demonstration of the theory of magnetoplasmas. He then builds on this base to present a new theory of magnetoplasmas which accounts for many previously inexplicable phenomena of tokamak behavior. He explains the reasons for unexpectedly large heat losses, and raises fundamental questions about whether fusion power will ever be economically viable. Chapters are followed by exercises and notes on the mathematics. This book is be an excellent base for a graduate course on plasma physics, and will interest researchers in both applied and plasma physics.

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