The Theory of Toroidally Confined Plasmas (3rd edition)

By R. B. White

Imperial College Press. Hardback. Book Condition: new. BRAND NEW, The Theory of Toroidally Confined Plasmas (3rd edition), R. B. White, This graduate level textbook develops the theory of magnetically confined plasma, with the aim of bringing the reader to the level of current research in the field of thermonuclear fusion. It begins with the basic concepts of magnetic field description, plasma equilibria and stability, and goes on to derive the equations for guiding center particle motion in an equilibrium field. Topics include linear and nonlinear ideal and resistive modes and particle transport. It is of use to workers in the field of fusion both for its wide-ranging account of tokamak physics and as a kind of handbook or formulary. This edition has been extended in a number of ways. The material on mode-particle interactions has been reformulated and much new information added, including methodology for Monte Carlo implementation of mode destabilization. These results give explicit means of carrying out mode destabilization analysis, in particular for the dangerous fishbone mode. A new chapter on cyclotron motion in toroidal geometry has been added, with comparisons of the analysis of resonances using guiding center results. A new chapter on the use of lithium...

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