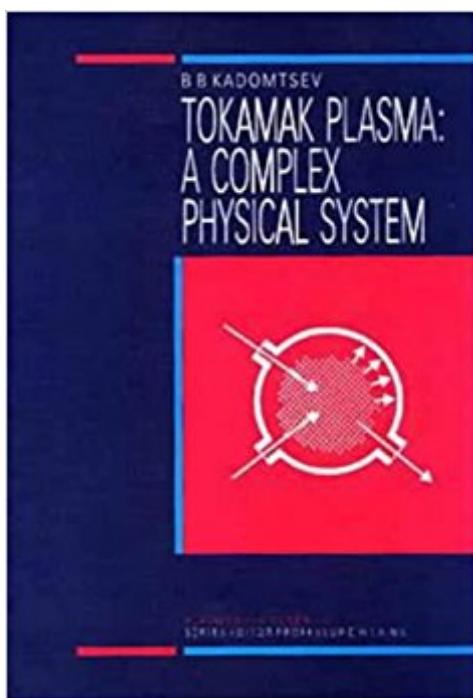


The book was found

Tokamak Plasma: A Complex Physical System, (Plasma Physics)



Synopsis

The importance of tokamaks and their role in fusion reactors has been known for some time, but it is only now that plasma physicists have reached a clear understanding of the major principles governing the behaviour of confined high-temperature plasma. This book gives a timely and comprehensive survey of these concepts as well as a simple presentation of the basic physics involved. The topics discussed include: the theory of plasma equilibrium and its main instabilities, semi-empirical approaches for investigating heat transport, major plasma instabilities restricting the region of a tokamak's operating modes, a variety of plasma confinement regimes and other phenomena such as MARFE, magnetic bubbles and fishbones. The author proposes a new mechanism for anomalous heat transport connected with the idea of microscale 'island' structure. The information is presented in a clear and systematic way which will make this book interesting and useful to a broad spectrum of scientists and engineers involved in fusion reactor research. '...an excellent book - authoritative, broad and bristling with insight' Professor R D Hazeltine, The University of Texas at Austin.

Book Information

Series: Plasma Physics

Hardcover: 232 pages

Publisher: CRC Press; 1 edition (January 1, 1993)

Language: English

ISBN-10: 0750302348

ISBN-13: 978-0750302340

Product Dimensions: 0.5 x 6.5 x 9.5 inches

Shipping Weight: 1 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #7,124,524 in Books (See Top 100 in Books) #37 in Books > Textbooks > Engineering > Nuclear Engineering #1278 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Nuclear #3799 in Books > Science & Math > Physics > Solid-State Physics

Customer Reviews

"Fresh perspective for the experienced, and guidance for those just starting fusion research." --
Australian and New Zealand Physicist

Text: English (translation) Original Language: Russian

[Download to continue reading...](#)

Tokamak Plasma: A Complex Physical System, (Plasma Physics) Introduction to plasma physics and controlled fusion. Volume 1, Plasma physics Fundamental Aspects of Plasma Chemical Physics: Transport (Springer Series on Atomic, Optical, and Plasma Physics) Industrial Plasma Engineering: Applications to Nonthermal Plasma Processing, Vol. 2 Laser Interaction and Related Plasma Phenomena (Laser Interaction & Related Plasma Phenomena) The Physics Of Laser Plasma Interactions (Frontiers in Physics) The Passive Voice and Reported Speech: Your grammar torch to shed light on passive voice, reported speech, complex subject, complex object and cleft (Brookgarbolt's treasure Book 2) How Goats Can Fight Poverty: Complex problems do not always need complex solutions Making Things Work: Solving Complex Problems in a Complex World Transgender Lives: Complex Stories, Complex Voices Physical Processes of the Interaction of Fusion Plasmas with Solids (Plasma-Materials Interactions) Introduction to Plasma Physics Auroral Plasma Physics (Space Sciences Series of ISSI) Fundamentals of Plasma Physics Quantum Entanglement in Electron Optics: Generation, Characterization, and Applications (Springer Series on Atomic, Optical, and Plasma Physics) Introduction to Plasma Physics: With Space, Laboratory and Astrophysical Applications Numerical Simulation and Optimal Control in Plasma Physics: With Applications to Tokamaks (Modern Applied Mathematics Series) Recent Advances in the Theory of Chemical and Physical Systems: Proceedings of the 9th European Workshop on Quantum Systems in Chemistry and Physics ... in Theoretical Chemistry and Physics) The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Head First Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced Placement)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)