



A Survey of Problems in Divertor and Edge Plasma Theory (Classic Reprint) (Paperback)

By Divertor and Edge Plasma Theory W Group

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from A Survey of Problems in Divertor and Edge Plasma Theory On the bases of expected fusion energy production in a fusion reactor and of the energy and particle confinement in tokamaks as presently observed and understood, it is clear that a major design problem for a tokamak reactor is the development of a technique to accept the huge heat and particle fluxes at the first wall. At the same time there should not be a significant impurity reflux into the device. The introduction of a divertor is considered the best solution to the problem of absorbing the fluxes leaving the tokamak while maintaining a pure plasma. The ITER CDA has identified the divertor design as one of the most difficult design tasks. The divertor design has also been a major issue for JET and TFTR. The studies of demo and tokamak reactors also identify the divertor action as a critical item for successful tokamak operation. Given the importance of the divertor, it is no surprise that some time ago major efforts were established to model the plasma outside the separatrix. Typically...



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