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THE PLASMA BOUNDARY OF MAGNETIC FUSION DEVICES

PLASMA PHYSICS OF FUSION

Series Editor: R. D. DRYDEN

PLASMA PHYSICS OF FUSION: A SERIES OF MONOGRAPHS

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CRC Press

Taylor & Francis Group

200 North Zeeb Road, Boca Raton, Florida 33431

Plasma Boundary Of Magnetic Fusion Devices

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Plasma Boundary Of Magnetic Fusion Devices:

The Plasma Boundary of Magnetic Fusion Devices P.C Stangeby, 2000-01-01 The Plasma Boundary of Magnetic Fusion Devices introduces the physics of the plasma boundary region including plasma surface interactions with an emphasis on those occurring in magnetically confined fusion plasmas The book covers plasma surface interaction Debye sheaths sputtering scrape off layers plasma impurities recycling and control 1D and 2D fluid and kinetic modeling of particle transport plasma properties at the edge diverter and limiter physics and control of the plasma boundary Divided into three parts the book begins with Part 1 an introduction to the plasma boundary The derivations are heuristic and worked problems help crystallize physical intuition which is emphasized throughout Part 2 provides an introduction to methods of modeling the plasma edge region and for interpreting computer code results Part 3 presents a collection of essays on currently active research hot topics With an extensive bibliography and index this book is an invaluable first port of call for researchers interested in plasma surface interactions

On the Edge of Magnetic Fusion Devices Sergei Krasheninnikov, Andrei Smolyakov, Andrei Kukushkin, 2020-09-07 This book reviews the current state of understanding concerning edge plasma which bridges hot fusion plasma with a temperature of roughly one million degrees Kelvin with plasma facing materials which have melting points of only a few thousand degrees Kelvin In a fact edge plasma is one of the keys to solution for harnessing fusion energy in magnetic fusion devices The physics governing the processes at work in the edge plasma involves classical and anomalous transport of multispecies plasma neutral gas dynamics atomic physics effects radiation transport plasma material interactions and even the transport of plasma species within the plasma facing materials The book starts with simple physical models then moves on to rigorous theoretical considerations and state of the art simulation tools that are capable of capturing the most important features of the edge plasma phenomena The authors compare the conclusions arising from the theoretical and computational analysis with the available experimental data They also discuss the remaining gaps in their models and make projections for phenomena related to edge plasma in magnetic fusion reactors

Japanese Journal of Applied Physics ,2005 **Fusion Technology** ,2000 *JJAP* ,2005 **Energy Research Abstracts** ,1983 *Atomic and Molecular Data and Their Applications* Evelynne Roueff, 2007-04-20 This book contains papers presented at the International Conference on Atomic and Molecular Data and their Applications This conference provides a forum for the interaction of Atomic and Molecular AM data producers and users and for information exchange on AM data needs and availability AM data activities and databases worldwide *ERDA Energy Research Abstracts* ,1983

Nuclear Technology/fusion ,1983 **Doppler Measurements in the Edge of the Alcator C-Mod Tokamak Using a High-resolution Visible Spectrometer** Alexander Turner Graf, 2008 *Nuclear Fusion* ,2006 *Journal of the Physical Society of Japan* ,2006 *Physics Briefs* ,1993 *Progress Report on Research Supported by Grants from the Defense Research Board of Canada* University of Toronto. Institute for Aerospace Studies, 1999 *Plasma Physics Index* ,1982

Energy ,1984 *Proceedings* ,2002 **INIS Atomindex** ,1988 Government Reports Announcements & Index
,1986 Radio Frequency Power Plasmas Stephen J. Wukitch,Paul T. Bonoli,2005-10-21 In these proceedings of the April
2005 conference participants describe their current research in the theories computations and applications of radio
frequency power in plasmas for fusion space propulsion and material processing Many of the papers describe solutions in
tokamak geometries where phenomena to be modeled ranged from mm to tens of centimeters and self consistent models of
energetic particles and waves with about half the papers describing work in ion cyclotron range of frequencies ICRF Other
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