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Atomic And Plasma-Material Interaction Processes In Controlled Thermonuclear Fusion



Synopsis

Atomic and plasma-material interaction processes play an important role in thermonuclear fusion plasmas and the knowledge of these processes has a significant impact on fusion energy research and development. The present volume provides a comprehensive survey of atomic and plasma-material interaction aspects of controlled thermonuclear fusion. The review articles included in this volume describe the role of atomic and plasma-material interaction processes in the currently most active fusion research areas and emphasize the need for accurate quantitative information on these processes for resolving many outstanding issues in fusion research and reactor design development such as plasma energy balance, particle transport and confinement, impurity control, thermal power and helium exhaust, plasma heating and fuelling, edge plasma physics, development of fusion reactor plasma facing components and plasma diagnostics and modelling.

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