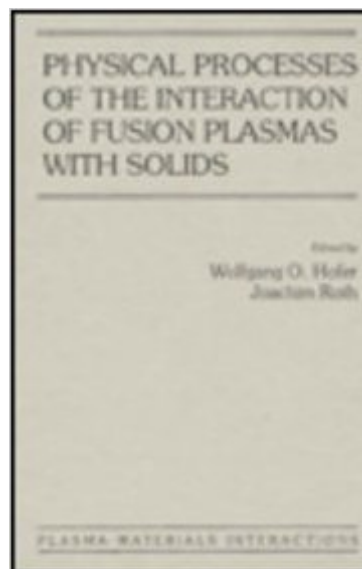




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Physical Processes Of The Interaction Of Fusion Plasmas With Solids (Plasma-Materials Interactions)



Synopsis

The recent development of large fusion devices achieving near energy break-even scientifically proves the viability of fusion as an energy source. The challenge now facing fusion researchers is surmounting engineering obstacles to make fusion energy practical. *Physical Processes of the Interaction of Fusion Plasmas with Solids* discusses problems associated with plasma-surface interactions which represent a key issue in achieving engineering as opposed to scientific success. Unlike previous books on the subject, this text is directly related to the broad range of plasma-surface interactions problems encountered in fusion devices. *Physical Processes of the Interaction of Fusion Plasmas with Solids* provides the specialized international fusion community with a resource that covers the interesting new developments that have occurred with the advent of the larger fusion plasma devices that have demonstrated near break-even energy. This book addresses problems that are useful for design and fabrication of such devices. The edge plasma Physical sputtering and radiation-enhanced sublimation Chemical erosion Electron emission from solids Control of plasma-surface interactions by thin films Thermal stability Radiation damage in metallic structural materials Radiation damage in carbon materials

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For other scientists in fusion, in particular the non-specialists, this book provides a useful survey of the present status of plasma-wall interaction issues and the most important processes involved, a

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