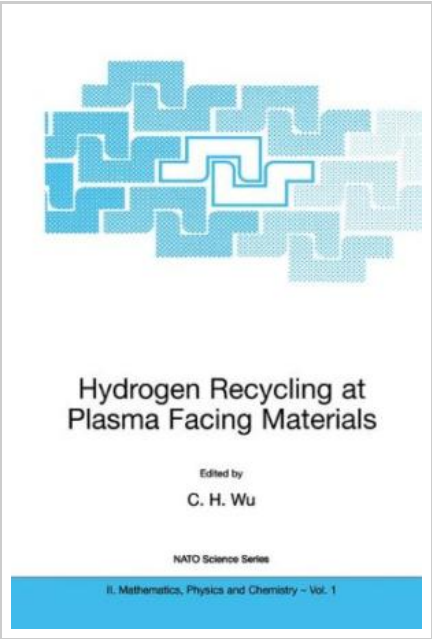


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Hydrogen Recycling at Plasma Facing Materials: Proceedings of the NATO Advanced Research Workshop, St.Petersburg, Russia, September 15-19, 1999

By -

Kluwer Academic Publishers, United States, 2000. Paperback. Book Condition: New. 239 x 157 mm. Language: English . Brand New Book ***** Print on Demand *****.One of the most important issues in the construction of future magnetic confinement fusion machines is that of the materials of which they are constructed, and one of the key points of proper material choice is the recycle of hydrogen isotopes with materials at the plasma face. Tritium machines demand high safety and economy, which in turn requires the lowest possible T inventory and smallest possible permeation through the plasma facing materials. The recycle behaviour of the in-vessel components must also be known if the plasma reaction is to predictable and controllable, and finally, the fuel cycle and plasma operating regimes may be actively controlled by special materials and methods. The book discusses both laboratory experiments exploring the basic properties of non-equilibrium hydrogen-solid systems (diffusion, absorption, boundary processes) and experimental results obtained from existing fusion machines under conditions simulating future situations to some extent. Contributions are from experts in the fields of nuclear fusion, materials science, surface science, vacuum science and technology, and solid state physics. Softcover reprint of the original 1st ed. 2000.

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