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Stellarator and Heliotron Devices provides an excellent treatment of stellarator theory. It is aimed at graduate students who have a good understanding of classical mechanics and mathematical techniques. It contains good descriptions and derivations of essentially every aspect of fusion theory. The author provides an excellent qualitative introduction to each subject, pointing out the ...

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A stellarator is a device used to confine hot plasma with magnetic fields in order to sustain a controlled nuclear fusion reaction. The name refers to the possibility of harnessing the power source of the sun, a stellar object. It is one of the earliest fusion power devices, along with the z-pinch and magnetic mirror.

Stellarator - Wikipedia

Stellarator and Heliotron Devices. Masahiro Wakatani. Oxford University Press, 1998 - Science - 444 pages. 1 Review. This monograph describes plasma physics for magnetic confinement of high temperature plasmas in nonaxisymmetric toroidal magnetic fields or stellarators. The techniques are aimed at controlling nuclear fusion for continuous energy production. While the focus is on the ...

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While the focus is on the nonaxisymmetric toroidal field, or heliotron, developed at Kyoto University, the physics applies equally to other stellarators and axisymmetric tokamaks. Stellarator and Heliotron Devices - Masahiro Wakatani - Oxford University Press

Stellarator and Heliotron Devices - Masahiro Wakatani

Book Review Stellarator and Heliotron Devices M. Wakatani, published by Oxford University Press, New York and Oxford, 1998, ISBN 0-19-507831-4, hard cover, 444 pages, \$70

DOI: 10.1088/0029-5515/39/2/701 - Institute of Physics

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BOOK REVIEW: Stellarator and Heliotron Devices

The paper presents a study of empirical scaling of energy confinement observed experimentally in stellarator/heliotron devices (Heliotron E, Wendelstein VII-A, L2, Heliotron DR) for plasmas heated ...

Scalings of energy confinement and density limit in

A stellarator is a magnetic confinement device. The rotational transform is predominantly generated by external coils - as opposed to a tokamak, in which the poloidal field is generated by plasma currents.

Stellarator - FusionWiki

Stellarator : large fraction of zonal flows in HJ than that in LHD (cf. transition from turbulence dominate

plasma to that of zonal flows) Enhanced zonal flow generation in weak shear regime

Tokamak/Stellarator (vs. FRC) Transport and

This monograph contains all aspects of plasma physics for plasma confinement in stellarator and heliotron devices. Present achievements and prospects for next generation devices are included.

Stellarator and heliotron devices (Book, 1998) [WorldCat.org]

Stellarator and Heliotron Devices by Masahiro Wakatani, 9780195078312, available at Book Depository with free delivery worldwide.

Stellarator and Heliotron Devices : Masahiro Wakatani

The SH TCP aims to advance applications of physics for fusion power, in particular magnetic fusion devices by developing the stellarator-heliotron concept of fusion reactors.

Stellarator-Heliotron Concept (SH TCP)

Besshou S. et al. , Integral Suppression of Pfirsch-schlüter Current in the Inward Shifted Stellarator plasma in Heliotron E In 1:2 stellarator with a shear [8], we can control this ratio j_r/j_n , but rather strong vertical field B_v is neces-

Integral Suppression of Pfirsch-Schlüter Current in the

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