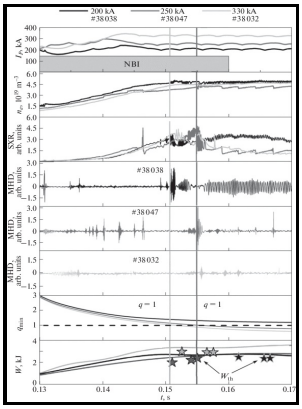
Plasma density scaling at the current reversal in the STOR-1M tokamak with AC operation

University of Saskatchewan, Plasma Physics Laboratory - Plasma density at the current reversal in the STOR



Description: -
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Tokamak devices
Plasma density
Alternating currentPlasma density scaling at the current reversal in the STOR-1M tokamak with AC operation
-Plasma density scaling at the current reversal in the STOR-1M tokamak with AC operation
Notes: Includes bibliographical references: p. 12-13.
This edition was published in 1992

Tags: #Plasma #equilibrium #in #a #Tokamak

Research Programs

Fueling technologies currently available, such as cryogenic deuterium-tritium pellet injection, may not be adequate to fuel directly the core of reactors where most fusion reactions take place. PPL-203 November 2000 Abstract V.

Research Programs

Drake and the EXTRAP T2R team, Y. For example, injection of microwaves at the lower-hybrid resonance frequency is a well developed technology for non-inductive current drive. Tiny computer chips smaller than 1 micron size can be fabricated on silicon substrate only in plasma reactors through the process of dry etching.

Engineering aspects of the ISTTOK operation in a multicycle alternating flat

In biomedical applications of diamond and related materials, DLC diamond-like-carbon has been coated on polymers PTFE to improve its haemocompatibility. In the core region of STOR-M, plasma density fluctuation measurement based on scattering of 2 mm microwave is being conducted with emphasis on short wavelength modes driven by the electron temperature gradient ETG mode. Inductive Ohmic current drive is highly efficient and not subject to plasma density limitation as rf wave current drive.

Books: 'STOR

Silva AIP, New York, 2008 , Vol.

Books: 'STOR

The high temperature in the sun is maintained by heat released in nuclear fusion reactions whereby hydrogen ions are fused to form heavier nuclei.

Plasma equilibrium in a Tokamak

Materials Processing Plasma Assisted Materials Synthesis and Processing Bradley, Hirose, Xiao, Yang Research on plasma assisted material synthesis and processing was initiated in the Laboratory four years ago. In 2000, research on plasma based material synthesis was initiated.

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