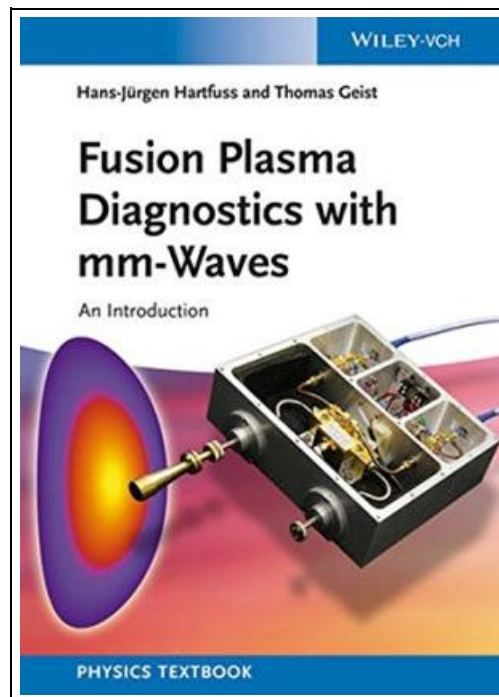


Fusion Plasma Diagnostics with mm-Waves



Filesize: 4.5 MB

Reviews

A whole new eBook with a brand new viewpoint. Yes, it is perform, continue to an interesting and amazing literature. You wont truly feel monotony at whenever you want of the time (that's what catalogs are for concerning should you ask me).

(Margie Jaskolski)

FUSION PLASMA DIAGNOSTICS WITH MM-WAVES

DOWNLOAD



To save **Fusion Plasma Diagnostics with mm-Waves** PDF, make sure you refer to the hyperlink listed below and download the document or have accessibility to additional information which might be have conjunction with FUSION PLASMA DIAGNOSTICS WITH MM-WAVES book.

Condition: New. Publisher/Verlag: Wiley-VCH | An Introduction | Filling a gap in the literature, this introduction to the topic covers the physics of the standard microwave diagnostics established on modern fusion experiments, and the necessary technological background from the field of microwave engineering. Written by well-known mm-wave diagnosticians in the field of fusion physics, the textbook includes such major diagnostic techniques as electron cyclotron emission, interferometry, reflectometry, polarimetry, and scattering. | Preface XIII1 Fusion Research 11.1 Reaction Scheme 11.2 Magnetic Plasma Confinement 41.2.1 Tokamak 51.2.2 Stellarator 61.2.3 Physics Issues of Magnetic Confinement 71.2.4 Plasma Heating 101.3 Plasma Diagnostic 111.3.1 Generic Arrangements 121.3.2 Microwave Diagnostics 15References 172 Millimeter-Waves in Plasmas 192.1 Basic Equations 202.2 Plasma Dielectric Tensor, General Properties 232.3 Dielectric Tensor from Kinetic Theory 252.4 Cold-Plasma Limit 292.5 Derivation within Fluid Description 322.6 Discussion of Cold-Plasma Dispersion Relations 342.6.1 Nonmagnetized Plasma, $B_0 = 0$ 342.6.2 Magnetized Plasma, Parallel Propagation, kB_0 372.6.3 Magnetized Plasma, Perpendicular Propagation, kB_0 392.6.4 Slightly Oblique Propagation 412.7 Finite-Temperature Correction to Cold-Plasma Dielectric Tensor 422.7.1 Finite Larmor Radius Expansion 422.7.2 Warm-Plasma Approximation 442.7.3 Relativistic Corrections 462.8 Inhomogeneous Plasma 482.8.1 WKB Approximation 492.8.2 Refraction 512.8.3 Ray Tracing 532.9 Finite-Size Probing Beam 542.9.1 Gaussian Beam Description 542.10 Radiation Transfer 582.10.1 Transparent Plasma 582.10.2 Plasma Emitting and Absorbing 602.10.3 Multiple Chords, Imaging 61References 623 Active Diagnostics 653.1 Interferometry 653.1.1 Single-Chord Interferometry 683.1.2 Multiple Chords 693.2 Polarimetry 703.2.1 Faraday Effect 713.2.2 Cotton-Mouton Effect 753.2.3 Common Generalized Description 773.3 Reflectometry 833.3.1 Time Delay Measurement 863.3.2 Phase Change at Cutoff 893.3.3 Profile Reconstruction 923.3.4 Localization of Reflecting Layer 933.3.5 Relativistic Corrections 953.3.6 Influence of Density Fluctuations 953.4 Scattering 1003.4.1 Single-Particle Thomson Scattering 1013.4.2 Doppler Shift 1023.4.3 Incoherent Scattering 1043.4.4 Relativistic Incoherent Scattering Spectrum 1063.4.5 Role of Density Fluctuations 1083.4.6 Coherent Scattering 1083.4.7 Electron and Ion Feature 1103.4.8 Summarizing Comments 113References 1154 Passive...



[Read Fusion Plasma Diagnostics with mm-Waves Online](#)



[Download PDF Fusion Plasma Diagnostics with mm-Waves](#)

Other eBooks



[PDF] **Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)**

Access the hyperlink beneath to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" PDF document.

[Download Document »](#)



[PDF] **TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)**

Access the hyperlink beneath to read "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" PDF document.

[Download Document »](#)



[PDF] **Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)**

Access the hyperlink beneath to read "Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" PDF document.

[Download Document »](#)



[PDF] **Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]**

Access the hyperlink beneath to read "Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF document.

[Download Document »](#)



[PDF] **Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Access the hyperlink beneath to read "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" PDF document.

[Download Document »](#)



[PDF] **Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)**

Access the hyperlink beneath to read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" PDF document.

[Download Document »](#)