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Providing a systematic and self-contained treatment of excitation, propagation and re- emission of electromagnetic waves guided by density ducts in magnetized plasmas, this book describes in detail the theoretical basis of the electrodynamics of ducts.

Electrodynamics of Density Ducts in Magnetized Plasmas ...

Electrodynamics of Density Ducts in Magnetized Plasmas book. The Mathematical Theory of Excitation and Propagation of Electromagnetic Waves in Plasma Waveguides. By I G Kondratiev, A V Kudrin, T M Zaboronkova. Edition 1st Edition . First Published 1999 . eBook Published 16 August 2019 .

Introduction | Electrodynamics of Density Ducts in ...

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The density magnitude inside the duct is set equal to $n_i = 2.5045E + 8 \text{ m}^{-3}$, and the density magnitude outside the duct is $n_o = 0.9E + 8 \text{ m}^{-3}$.

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proportional to the width of the duct and the magnitude of the plasma density inside the duct.

Spectral properties of high&density ducts

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Plasma Electrodynamics, Volume 1: Linear Theory is a seven-chapter book that begins with a description of the general methods of describing plasma, particularly, kinetic and hydrodynamic methods. Chapter 2 discusses the linear theory of magneto-hydrodynamic waves. Chapter 3 describes the non-linear magneto-hydrodynamic waves, both simple waves ...

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In this study, the physical structure for the propagation of whistler waves in ducts of nonuniform cold plasma density is investigated by means of electrodynamics theory.

Whistler wave propagation in field-aligned density duct ...

The current from the DC electromagnetic pump passed from the electrode stub to the pump duct, which is made of 316L stainless steel , before branching to the permanent magnet, liquid lithium, and pump duct.

Numerical analysis of the electromagnetic force for design ...

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The guided propagation of whistler waves along cylindrical density depletion ducts in a magneto-plasma is studied. It is shown that, under certain conditions, such ducts can support volume and surface eigenmodes. The dispersion properties and field structure of whistler modes guided by density depletion ducts are analyzed. The effect of collisional losses in the plasma on the properties of ...

Whistler waves guided by density depletion ducts in a ...

Abstract. The nonlinear resonant interactions between whistler waves guided by density ducts surrounded by a uniform magnetized plasma are studied. It is shown that, under specific conditions that are determined, a time-harmonic external electromagnetic field can drive the parametric instability of guided whistlers.

Nonlinear interaction of whistler waves in a magnetized ...

The main attention is paid to ducts with enhanced plasma density. It is shown that, under certain conditions, such ducts are capable of guiding proper (eigen) modes and improper leaky modes.

Whistler waves guided by ducts with enhanced density in a ...

ditions at each fluid - duct-wall, duct - wall-core, and core-space interface. The excitation currents in the coils are approximated by an equivalent surface current density at the interface between the outer core and the duct wall in order to be consistent with the method of analysis.

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A study is made of the excitation and guided propagation of whistler waves along magnetic-field-aligned cylindrical ducts with enhanced plasma density. The ducts have been created in the large ...

Excitation of whistler waves in a magnetoplasma containing ...

In quantum electrodynamics, the light in the form of photon is interacting with the charged particle i.e. electric field. Basically the quantum electrodynamics is the interaction between the light and electromagnetic field. This quantum electrodynamics is based on special theory of relativity.

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