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An important feature of ducts near the equator is that their electron density profiles are smooth enough so that the density does not vary appreciably within a local wavelength.

Measurements of the spatial distribution of the fields shown that the picture of electromagnetic field propagation is much more complicated in the nonlinear case than it is at linear power levels.

Introduction | Electrodynamics of Density Ducts in ...

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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 text describes in detail the theoretical basis of the electrodynamics of ducts.

Electrodynamics of density ducts in magnetized plasmas

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Kondratiev / Kudrin / Zaboronkova, Electrodynamics of Density Ducts in Magnetized Plasmas, 1999, Buch, 9789056992002.
Bücher schnell und portofrei

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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 $n_o = 0.9E + 8 \text{ m}^{-3}$. These values of k_{\parallel} , ω , and n_i provide $k_{\perp 1} = 2.047E-3 \text{ rad/m}$ and $k_{\perp 2} = 1.024E-3 \text{ rad/m}$, which values satisfy the condition $k_{\perp 2} = 2 k_{\perp 1}$ inside the channel.

Spectral properties of high-density ducts - Streltsov ...

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While the hypothesized existence of field-aligned density ducts accounts for a large body of experimental data [Ohta et al. , 1996; Singh et al. , 1998; Carpenter and Smith , 2001], it has not been previously possible to directly verify that large, cylindrical density structures greatly extended along the Earth's magnetic field lines exist or ...

Real-time imaging of density ducts between the ...

Thus each value of the density inside the duct defines minimum width of the duct channel providing the nonleaking ducting, and each width of the duct channel defines a minimal density magnitude providing the nonleaking ducting. HDDs with the same value

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Spectral properties of high-density ducts/waveguides

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

...

we can start with the vector product of $\mathbf{n} \times \mathbf{E}$ with Eq. (1.4c) and subtract the vector product of Eq. ... (3.3) to the Lagrangian density of the electromagnetic field in the medium results in the

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(PDF) Continuum electrodynamics and the Abraham--Minkowski ...

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Electromagnetism is a branch of physics involving the study of the electromagnetic force, a type of physical interaction that occurs between electrically charged particles. The electromagnetic force is carried by electromagnetic fields composed of electric fields and magnetic fields, and it is responsible for electromagnetic radiation such as light. It is one of the four fundamental ...

Electromagnetism - Wikipedia

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

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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.

Propagation Electromagnetic Waves Plasmas - AbeBooks

The duct acts as a helical antenna based on electromagnetic and antenna theory; the dimensions of the duct and the dielectric properties of the surrounding medium are major factors that determine the resonance frequency [33]. Therefore, sweat duct dimensions, density and distribution as well as the dielectric properties of the stratum corneum are crucial in determining the resonating frequency range, which will enable further insight into THz wave interactions with human beings.

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