

Electromagnetic Instabilities In An Inhomogeneous Plasma

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Electromagnetic Instabilities In An Inhomogeneous Plasma presents a comprehensive survey of the theory of electromagnetic instabilities in a magnetized inhomogeneous plasma, mainly in the classical approximation of straight and parallel magnetic field lines as well as magnetic-field curvature effects.

Electromagnetic Instabilities in an Inhomogeneous Plasma ...

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Presents a comprehensive survey of the theory of electromagnetic instabilities in a magnetized inhomogeneous plasma, mainly in the classical approximation of straight and parallel magnetic field This book enables researchers to improve their knowledge of this field of plasma research.

Electromagnetic instabilities in an inhomogeneous plasma ...

Abstract. The electromagnetic properties of four microinstabilities in an inhomogeneous plasma with a temperature gradient are studied analytically and numerically. The evolution of the drift cyclotron loss cone instability as the loss cone velocity distribution is progressively filled with a warm Maxwellian component is studied.

Electromagnetic lower hybrid instabilities in an ...

The stability of inhomogeneous collisionless plasmas with respect to electromagnetic perturbations is studied. The macroscopic equilibrium parameters depend on a single coordinate of an orthogonal system. The current carried by the particles of the plasma is directed along another coordinate axis.

Electromagnetic instabilities in collisionless plasmas ...

Indeed, instabilities arising in inhomogeneous plasmas can be the origin of a turbulent state characterised by a certain level of uctuations. The electromagnetic elds associated with these uctuations can cause stochastic motion of the constituent plasma particles.

Waves and Instabilities in Inhomogeneous Plasmas

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The paper investigates the decay of electromagnetic pump waves due to the parametric interaction of collective modes in an inhomogeneous unmagnetized plasma. Parametric decay due to Raman scattering (including backscattering and sidescattering) and Brillouin scattering (by undamped and heavily damped ion waves) of the pump wave on plasma waves is examined.

Parametric instabilities in an inhomogeneous unmagnetized ...

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Electromagnetic Instabilities In An Inhomogeneous Plasma

Kinetic equations for low frequency, short perpendicular wavelength, electromagnetic perturbations in an inhomogeneous, magnetically confined plasma are developed. The analysis makes use of the recently developed high toroidal mode number expansion to reduce the lowest-order system of equations to a set of ordinary (along the field line) integro-differential equations.

Kinetic equations for low frequency instabilities in ...

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Instabilities of an Inhomogeneous Plasma Hardcover A. B. ...

The interaction of electromagnetic waves with matter has always been a fascinating subject of study. As matter in the universe is mostly in the plasma state, the study of electromagnetic waves in plasmas is of importance to astrophysics, space physics and ionospheric physics. The physics of electromagnetic wave interacting with electron beams and plasmas also serves as a basis for coherent ...

Interaction of Electromagnetic Waves with Electron Beams ...

in inhomogeneous plasmas to test the validity of these theories and to determine what type of plas-ma heating one may obtain. This requires either sufficiently high temperatures and/or sufficiently collisionless plasmas, and electromagnetic waves incident onto an inhomogeneous plasma from the outside. To study some of these, effects, we set

Parametric instabilities and plasma heating in an ...

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Raman and Brillouin scattering of electromagnetic waves in ...

L. Gomberoff, Linear and nonlinear electromagnetic and electrostatic instabilities in a plasma with two ion beams, Journal of Geophysical Research: Space Physics, 10.1029/2007JA012723, 113, A2, (2008).

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