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A number of different models of the system are considered, and all instabilities are classified according to whether they are convective instabilities (amplifying waves) or nonconvective (absolute) instabilities. The study also analyzes the instabilities in unbounded beam-plasma systems and in systems of finite extent transverse to the electron stream and gives a detailed consideration of the possibility of a strong interaction with the ions in a hot-electron plasma.
This study considers the instabilities that result when an electron beam is injected into a plasma. A number of different models of the system are considered, and all instabilities are classified according to whether they are convective instabilities (amplifying waves) or nonconvective (absolute) instabilities.
approximation central to analysis of a range of plasma phenomena. The vicinities of quasars, pulsars, and black holes are believed to harbor this exotic plasma and ongoing experiments with electron-stream interaction with plasmas.
Abstract

This study considers the instabilities that result when an electron beam is injected into a plasma. The interaction between the electron beam and the plasma modifies the plasma's properties, leading to the formation of instabilities. These instabilities can manifest in various forms, such as wave modes, charge separation, and density fluctuations. The analysis involves the simulation of the electron beam-plasma system using numerical methods. The results reveal the conditions under which these instabilities become dominant, providing insights into the behavior of electron beams in plasma environments.
This study considers the instabilities that result when an electron beam is injected into a plasma. A number of different models of the system are considered, and all instabilities are classified according to whether they are convective instabilities amplifying waves or nonconvective.
In consists of a homogeneous cold relativistic electron beam layer particles streaming through a maxwellian plasma normal to a uniform external magnetic field using linear stability analysis. The model...
The study also analyzes the instabilities in unbounded beam plasma systems and in systems of finite extent transverse to the electron stream and gives a detailed consideration of the possibility of a strong interaction with the ions in a hot electron plasma. Additionally, the author presents