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THEORETICAL STUDIES OF PLASMA-LOADED BACKWARD WAVE OSCILLATOR



Dilip Kumar Sarker
Theoretical Studies of
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Wave Oscillator
Effect of Waveguide Parameters on Absolute
Instability in a Plasma loaded Backward Wave
Oscillator



LAP Lambert Academic Publishing Jun 2012, 2012. Taschenbuch. Condition: Neu. Neuware - The linear theory of electromagnetic radiation from a plasma-loaded sinusoidally corrugated backward wave oscillator driven by intense relativistic electron beam has been developed and analyzed numerically as well as analytically. A beam-plasma waveguide model has been proposed and studied analytically with an aim to give a guideline to achieve an optimally designed backward wave oscillator in the X-band frequency range. First, the dispersion relation for TM₀₁ mode in...

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