Abstracts

Energy and Power Relations for an Electron Beam in a Cylindrical Waveguide (Short Papers)

S.R. Seshadri. "Energy and Power Relations for an Electron Beam in a Cylindrical Waveguide (Short Papers)." 1982 Transactions on Microwave Theory and Techniques 30.5 (May 1982 [T-MTT]): 813-816.

The characteristics of the energy per unit length and power flow are analyzed for the transverse magnetic mode supported by an electron beam drifting with a relativistic velocity parallel to the axis of a cylindrical waveguide. The parts of the dispersion curve corresponding to the positive and the negative energy waves are identified.

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