Abstracts

Energy and Power Orthogonality in Isotropic, Discretely Inhomogeneous Waveguides (Comments)

P.R. McIsaac. "Energy and Power Orthogonality in Isotropic, Discretely Inhomogeneous Waveguides (Comments)." 1993 Microwave and Guided Wave Letters 3.8 (Aug. 1993 [MGWL]): 284-285.

In a recent letter, Manring and Asmussen discuss orthogonality relations for modes in cylindrical waveguides containing isotropic media whose permittivity may be discretely inhomogeneous. They develop these relations in terms of the TE and TM portions of the transverse electric and magnetic fields. As an example, they discuss the TE and TM modes of certain inhomogeneously-filled waveguides (for example, the axisymmetric modes in a coaxially-loaded circular cylindrical waveguide).

❑ Return to main document.