Abstracts

Wave Impedance Dyadic for Hybrid Modes in General Homogeneous Biisotropic Cylindrical Waveguides

L.R. Arnaut and L.E. Davis. "Wave Impedance Dyadic for Hybrid Modes in General Homogeneous Biisotropic Cylindrical Waveguides." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1025-1027.

The wave impedance dyadic for general biisotropic waveguides is derived for HE and EH modes using a consistent generalisation of the scalar wave impedance concept. This dyadic is in general anti-symmetric. Particular forms for a parallel-plate waveguide are presented, providing new insight into the relation between transverse field components.

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