

Abstracts

Characteristics of generalized rectangular and circular ridge waveguides

Yu Rong and K.A. Zaki. "Characteristics of generalized rectangular and circular ridge waveguides." 2000 Transactions on Microwave Theory and Techniques 48.2 (Feb. 2000 [T-MTT] (Mini-Special Issue on Research Reported at the 1999 Radio Frequency Integrated Circuits (RFIC) Symposium)): 258-265.

Generalized ridge waveguides are analyzed using the mode-matching method. The characteristic impedance, attenuation, and power-handling capability of several types of ridge rectangular waveguides and ridge circular waveguides are presented. Numerical results are obtained, which are useful in the design of many microwave components and subsystems.

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