

Abstracts

Analysis and Design of Microslab Waveguide

B. Young and T. Itoh. "Analysis and Design of Microslab Waveguide." 1987 Transactions on Microwave Theory and Techniques 35.9 (Sep. 1987 [T-MTT]): 850-857.

Microslab, a novel low-loss semiplanar waveguide, is studied to provide design charts for the propagation constant and characteristic impedance. A parallel-plate analysis is performed to provide design guide-lines based on frequency, conductor loss, and size. A mode-matching procedure is then used to build the design charts. Results are provided for Microslab implementation on GaAs substrates.

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