

Abstracts

A New Method of Analyzing and Modeling Integrated Optoelectronic Components

N. Dagli and C.G. Fonstad. "A New Method of Analyzing and Modeling Integrated Optoelectronic Components." 1987 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 87.1 (1987 [MCS]): 39-41.

Using a mode matching technique, a modular microwave equivalent circuit incorporating both guided and continuum spectra has been developed to model integrated optoelectronic components accurately with limited computational effort. The analysis is verified with experiments on GaAs rib waveguides and directional and three guide couplers.

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