

Abstracts

Network Methods for Dielectric-Grating Applications

T. Tamir and S.T. Peng. "Network Methods for Dielectric-Grating Applications." 1976 MTT-S International Microwave Symposium Digest of Technical Papers 76.1 (1976 [MWSYM]): 27-29.

The application of network methods to the analysis and design of integrated-optics components is illustrated for the case of dielectric gratings, which are relevant to optical beam couplers, filters and distributed-feed-back lasers. The advantage of the network representation in those cases is that the role of each grating parameter can be interpreted in terms of the network elements. In addition to yielding physical insight into the electromagnetic field behavior, the network approach greatly facilitates the design and construction of dielectric gratings having efficient operation or other desired characteristics.

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