

# Abstracts

## Dielectric Waveguide Band-Pass Filters with Broad Stop Bands

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*P.K. Ikalainen, G.L. Mattheai, D.C. Park and M.S. Wei. "Dielectric Waveguide Band-Pass Filters with Broad Stop Bands." 1985 MTT-S International Microwave Symposium Digest 85.1 (1985 [MWSYM]): 277-280.*

Techniques for the design of band-pass filters using dielectric waveguide gratings are discussed. Direct-coupled-resonator filter theory is applied to synthesize a prescribed pass band having a Chebyshev or maximally flat characteristic, and at the same time a broad, absorptive stop band is provided through the use of parallel-coupled gratings. Experimental results are also presented which show good agreement between theoretical and measured results.

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