Abstracts

Dielectric Waveguide Grating Design for Bandstop and Bandpass Filter Applications

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Techniques have been obtained for the precision design of dielectric waveguide (DW) bandstop filters in the form of a grating in DW which utilizes notches of varying depth. The grating is designed from a transmission-line prototype which has a prescribed stop band and also prescribed Chebyshev pass bands. Two such grating structures used with loads on one end and a 3-dB coupler can be used to form a bandpass filter.

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