

# Abstracts

## The Design of a Class of Microwave Filters Using Lumped and Distributed Elements

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*M.I. Sobhy and M. Safi. "The Design of a Class of Microwave Filters Using Lumped and Distributed Elements." 1977 Transactions on Microwave Theory and Techniques 25.12 (Dec. 1977 [T-MTT] (1977 Symposium Issue)): 1037-1041.*

The design and performance of ladder networks containing both lumped and distributed elements are described. The necessary and sufficient conditions on the coefficients of the characteristic polynomial have been obtained and a suitable low-pass to band-pass transformation has been developed. The design procedure was then applied to the design of microwave filters and the measured performances show good agreement with the theoretical predictions.

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