

# Abstracts

## The Design of Ladder Networks Containing Lumped and Distributed Elements

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*M.I. Sobhy and M. Safi. "The Design of Ladder Networks Containing Lumped and Distributed Elements." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 305-307.*

A design procedure has been developed to design lumped/distributed ladder networks. The necessary and sufficient conditions on the coefficients of the characteristic polynomial have been obtained and a suitable low-pass to band-pass frequency transformation has been developed. The procedure was then applied to design a microwave filter and the results show good agreement with the theoretical predictions.

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