

## Synthesis of Planar Microwave Band-Pass Filter Based on Foster-Type Network and Normal Mode Expansion Method

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*J.P. Hsu, T. Anada, H. Tsubaki, Y. Migita and K. Nagashima. "Synthesis of Planar Microwave Band-Pass Filter Based on Foster-Type Network and Normal Mode Expansion Method." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1199-1202.*

A new synthesis method of microwave filter circuit based on the Foster-type network representation is proposed, where two port impedance matrix which realizes the desired frequency characteristics and that of any microwave circuit structure are expanded into Foster-type network representation; microwave filter circuit can be synthesized by matching the both network representation. In this paper fundamental idea of synthesis method and practical examples are explained.

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