

Abstracts

The Synthesis of Quarter-Wave Transformers, Low-Pass and Half-Wave Filters in the Sine Plane (Letters)

A.I. Grayzel. "The Synthesis of Quarter-Wave Transformers, Low-Pass and Half-Wave Filters in the Sine Plane (Letters)." 1975 *Transactions on Microwave Theory and Techniques* 23.9 (Sep. 1975 [T-MTT]): 774-776.

This letter presents a method for synthesizing quarter-wave Chebyshev transformers, low-pass and half-wave filters. The method uses sine-plane synthesis which greatly simplifies the numerical calculations and allows one to obtain good numerical accuracy using just a desk calculator. Equations for the transmission coefficient are given in a simplified form.

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