Abstracts

Multi-Section Inhomogeneous Coupled-Line Filters with Large Mode-Velocity Ratios

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Design data for single-section inhomogeneous coupled-line filters based on large even/odd mode-velocity ratios has recently been published. The purpose of this paper is to extend those results to multi-section inhomogeneous coupled-line filters with large mode-velocity ratios. Both experimental and theoretical data are presented. The rather complex pole-zero structure of single-section inhomogeneous coupled-line filters permits great flexibility in designing multi-section filters. Very sharp transitions between pass- and stop-bands are possible as well as large stopband to passband width ratios.

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