

Abstracts

A Harmonic Rejection Filter Designed by an Exact Method

*B.M. Schiffman. "A Harmonic Rejection Filter Designed by an Exact Method." 1964
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An exact design procedure for band-stop filters is used to design a transmission-line filter with one point of perfect match at a fundamental frequency and one point of infinite attenuation at a harmonic frequency. This design method is based on the mapping of the response of a low-pass prototype into that of a transmission line filter. Here a three-element Chebyshev filter is chosen as the prototype and the otherwise general procedure is adapted for the special case of rejection of the second harmonic.

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