

# Abstracts

## A Design Method for Meander-Line Networks Using Equivalent Circuit Transformations

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R. Sato. "A Design Method for Meander-Line Networks Using Equivalent Circuit Transformations." 1971 *Transactions on Microwave Theory and Techniques* 19.5 (May 1971 [T-MTT]): 431-442.

Many types of coupled structures are used to design microwave filters and equalizers. One such structure is the array of coupled parallel commensurate conductors called a meander line. There are several analysis techniques that may be used to find the equivalent circuit of a meander line. However, these do not provide exact design equations. In this paper, meander-line networks are analyzed and synthesized using the graph-transformation technique. The equivalent circuits of one- and two-port meander-line networks will be developed by using the transformation method, and it will be shown that meander-line networks can be easily designed by using the electronic computer.

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