

Abstracts

Bloch-Wave Analysis of Stripline- and Microstrip-Array Slow-Wave Structures

V. Rizzoli and A. Lipparini. "Bloch-Wave Analysis of Stripline- and Microstrip-Array Slow-Wave Structures." 1981 Transactions on Microwave Theory and Techniques 29.2 (Feb. 1981 [T-MTT]): 143-150.

The paper discusses a general approach to the analysis of periodic structures essentially consisting of an array of coupled striplines or microstrips. It is shown that any such structure can be represented as a cascade of identical multiport networks of known topology, thus allowing a straightforward analysis in terms of Bloch waves. The method is equally applicable to homogeneous and nonhomogeneous dielectric (i.e., MIC) devices.

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