Abstracts

A New Result in the Synthesis of Incommensurate Line Networks

In this paper, an approach to computing the scattering matrix of a two-dimensional lossless network with two elements is first presented. Then, three examples are given to show how an incommensurate line network is realized. After that, recurrence formalas for calculating the scattering parameters of n cascaded two-dimensional networks are derived. Finally, to exhibit the outstanding merits of the new approach, a broadband double matching incommensurate line network is synthesized.

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