

Abstracts

Computer-Aided Microwave Circuit Analysis by a Computerized Numerical Smith Chart

M. Vai and S. Prasad. "Computer-Aided Microwave Circuit Analysis by a Computerized Numerical Smith Chart." 1992 Microwave and Guided Wave Letters 2.7 (Jul. 1992 [MGWL]): 294-296.

The Smith chart, while being a very useful graphical tool for the manual analysis and design of microwave circuits, is not suitable for computer manipulation. A computerized Smith chart represented by a numerical matrix is developed. In addition to the fact that this numerical matrix is very convenient for computer storage and efficient for algorithmic operations, it retains the locality relationships between impedances and reflection coefficients on a graphical Smith chart.

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