

## Numerical Methods for Passive Components

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Because of recent advances in microwave technology, such as monolithic integrated circuits, and the use of the millimetre-wave spectrum, highly sophisticated numerical techniques are required for the analysis and design of microwave circuits and components. This paper will describe a number of numerical methods which have been developed for the characterization, modelling and design of microwave and millimetre-wave passive structures, with emphasis on planar and quasi-planar structures. Specific advantages and disadvantages in terms of versatility, accuracy, computer discussed. Typical structures representative examples of the time, memory, will be will be illustrated as methods described.

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