Abstracts

Calculation of Multiconductor Microstrip Line Capacitances Using the Semidiscrete Finite Element Method

M. Davidovitz. "Calculation of Multiconductor Microstrip Line Capacitances Using the Semidiscrete Finite Element Method." 1991 Microwave and Guided Wave Letters 1.1 (Jan. 1991 [MGWL]): 5-7.

In the presented analysis partial finite element discretization of the Poisson's equation is implemented. The governing partial differential equation is thus reduced to a coupled set of ordinary differential equations, which is solved analytically. Formulation of the solution with this technique is more general and versatile than with the method of lines. The method of lines is derived as a special case of the semidiscrete finite element method.

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