Abstracts

A novel 2-D multi-mode parallel time domain diakoptics and its application in filter analysis and design

Donglin Su, Jun-Seok Park, B. Houshmand, Yongxi Qian and T. Itoh. "A novel 2-D multi-mode parallel time domain diakoptics and its application in filter analysis and design." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 477-480.

A novel two-dimensional multi-mode parallel time domain diakoptics based on FDTD is proposed. The discrete time domain Green's function is employed to analyze complicated circuits entirely in time domain with greatly improved efficiency. A part of the results is combined with frequency-domain synthesis method to design a band-pass filter. Excellent agreement with mode-matching and measured results is obtained.

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