

Abstracts

Modeling Microwave Devices: A Symbolic Approach

M. Vai, B. Hong and S. Prasad. "Modeling Microwave Devices: A Symbolic Approach." 1992 Microwave and Guided Wave Letters 2.9 (Sep. 1992 [MGWL]): 372-374.

A symbolic computation technique, which automatically converts an equivalent circuit model of an electron device into a set of closed-form S-parameter equations, is presented. It is shown how these equations are used to customize a computer-aided model generation process. Significant improvement has been observed in the computational efficiency of a modeling process utilizing these closed form equations.

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