

Abstracts

A CAD Program for the Symbolic and Numerical Analysis of Microwave Electronic Circuits

A. Riddle. "A CAD Program for the Symbolic and Numerical Analysis of Microwave Electronic Circuits." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 355-358.

A new circuit analysis program, capable of both symbolic and numerical calculations, is described. The ability to derive equations describing a circuit's operation is a great leap forward for engineering analysis. This program, nodal, can calculate voltages, currents, S-parameters, and noise coefficients. Since nodal uses the Mathematica® engine, it takes advantage of the capabilities of Mathematica as well as its ability to run on various hardware platforms. A detailed description of this program and examples of its use is given below.

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