Abstracts

Computer Simulation of Small-Signal and Noise Behavior of Microwave Bipolar Transistors Up to 12 GHz

K. Hartmann and M.J.O. Strutt. "Computer Simulation of Small-Signal and Noise Behavior of Microwave Bipolar Transistors Up to 12 GHz." 1974 Transactions on Microwave Theory and Techniques 22.3 (Mar. 1974 [T-MTT] (Special Issue on Computer-Oriented Microwave Practices)): 178-182.

Computer-aided determination and optimization of lumped elements of equivalent circuits based on experimental data, application to the lumped equivalent circuit including noise sources of microwave bipolar transistors, and calculation of gain, noise, and stability from the said computer simulation are dealt with. As an example, a special microwave transistor mount and aspects of a new rugged metal-ceramic package are considered.

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