

Abstracts

Computer Modeling of Monolithic GaAs IC's

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The design of GaAs monolithically integrated circuits in the RF and low microwave frequency range is a process resembling low frequency IC design more than microwave circuit design. These GaAs circuits are directly coupled on-chip in a high-impedance environment. Since tuning and matching elements are not used, the traditional microwave CAD technique of computer optimizing passive element values is not required. Rather, the task of the GaAs IC designer is to predict with computer simulation what the performance of a proposed circuit design will be, then iterate as necessary to achieve the required results.

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