

Abstracts

An Expert System for Microwave Amplifier Design

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An expert system to assist in the design of different classes of linear microwave amplifiers for MIC/MMIC circuits is presented for the first time. The principal stages in the design of such a circuit are outlined and the decision to implement the expert system justified. Two important aspects of the design process are addressed; the choice of optimum circuit topology for a given specification and the selection of a suitable FET or FETs for that topology. The overall structure of the expert system is described and its operation demonstrated using a typical amplifier design.

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