

DEVELOPMENT OF A COMPUTER-AIDED RF DESIGN PACKAGE

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ABSTRACT

This project involves the development of a computer-aided design package to assist the design of RF circuits. Several design formulae were written in the package, and upon entry of S-parameter by the user, the program assists the designer in computing starting parameters for design.

This program is written in Visual Basic. Once the S-parameter data for the transistor is entered by the user, the program uses the data to obtain parameters for designing microwave transistor amplifiers and transforming lumped to distributed elements.

The package offers a graphical user interface (GUI) to make the package user friendly. The entry of S-parameter is done in a table that gives capability for user to use the program easily.

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