

Abstracts

Expert System for Microwave Filter Design

A.H. Nakamura, K. Hibino, F. Yamamoto and S. Kamihashi. "Expert System for Microwave Filter Design." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1183-1186.

An expert system for microwave filter design, "fire" (Filter Designer), has been developed to make a straightforward optimum design of edge-coupled microstrip-line bandpass filters. The system incorporates the design expertise and knowledge of experienced microwave-circuit design engineers as a knowledge data base, necessary design data as a microwave data base, and commercially available microwave circuit simulators. It can also generate MIC pattern layout data on MT (magnetic tape). Thus the system makes it possible even for inexperienced engineers to design bandpass filters with experienced engineers design quality in much shorter time than conventional design procedures.

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