

Abstracts

Computer-aided tuning of microwave filters using fuzzy logic (2002 Vol. II [MWSYM])

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The paper introduces an algorithm based on fuzzy logic for tuning microwave filters. The approach is demonstrated by considering two filters: one is slightly de-tuned and the other is highly de-tuned. In both cases, the approach proves to be very efficient in identifying the filter elements that cause the de-tuning. The fuzzy rules are extracted from sampled data. Expert rules can also be added. The algorithm can be applied to any microwave circuit tuning problem.

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