

# Abstracts

## TLM Synthesis of Microwave Structures Using Time Reversal

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*M. Forest and W.J.R. Hoefer. "TLM Synthesis of Microwave Structures Using Time Reversal." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 779-782.*

This paper presents a novel numerical synthesis technique based on the reversal of the TLM process in time. It allows the designer to generate the geometry of a passive circuit from its desired frequency response using alternate forward and backward time domain simulation. The essential steps of the procedure are explained and validated using, as an example, the synthesis of an inductive obstacle in a waveguide.

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