

# Abstracts

## A Model for Coplanar Waveguide Transmission Line Structure on Semiconductor Substrates (Short Papers)

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*K.R. Nary, K.G. Bellare and S.I. Long. "A Model for Coplanar Waveguide Transmission Line Structure on Semiconductor Substrates (Short Papers)." 1993 Transactions on Microwave Theory and Techniques 41.10 (Nov. 1993 [T-MTT]): 2034-2037.*

An accurate model for coplanar waveguide transmission line structures on semiconductive substrates is presented. The model is useful for simulating long ( $> 0.5$  mm) interconnects on LSI and VLSI GaAs circuits as well as high speed Si ICs. When simulated in the frequency domain, the model shows an excellent match to measured S parameters of coplanar waveguide samples.

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