

# Abstracts

## Passive GaAs FET Switch Models and Their Application in Phase Shifters

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*L.C. Upadhyayula, R.L. Camisa, G. Taylor, S.N. Subbarao and S.G. Liu. "Passive GaAs FET Switch Models and Their Application in Phase Shifters." 1987 MTT-S International Microwave Symposium Digest 87.2 (1987 Vol. II [MWSYM]): 903-906.*

A new device model is proposed for the zero bias ( $V_{gs} = 0$ ) and pinch off ( $V_{gs} - V_{p}$ ) states for GaAs MESFETs operated in a passive mode ( $I_{ds} = 0$ ). The agreement between measurements and predicted S-parameter data is better than 90% which is 40-50% improvement over previously published models. The FET switch model will be discussed. The fabrication and performance of 12 GHz MMIC phase shifters designed using this new model will be described.

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