

# Abstracts

## Wave Propagation on MESFET Electrodes and its Influence on Transistor Gain

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*W. Heinrich and H.L. Hartnagel. "Wave Propagation on MESFET Electrodes and its Influence on Transistor Gain." 1987 Transactions on Microwave Theory and Techniques 35.1 (Jan. 1987 [T-MTT]): 1-8.*

A rigorous analysis of wave propagation along MESFET electrodes is presented. Both the losses caused by the channel and those caused by the finite electrode conductivity are included, together with small-signal amplification. Results from this wave analysis are used to determine overall gain. Conclusions concerning traveling-wave FET design, optimal gate width and related criteria are drawn.

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