

# Abstracts

## Microwave Propagation in Semiconductors with Carrier Density Varying in Time

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*B.R. Nag and P. Das. "Microwave Propagation in Semiconductors with Carrier Density Varying in Time." 1962 Transactions on Microwave Theory and Techniques 10.6 (Nov. 1962 [T-MTT]): 564-567.*

Expressions are derived for the propagation function of a microwave signal inside a waveguide filled with a semiconductor with carrier density varying in time. The bearing of these expressions on the performance of semiconductor microwave modulators and on microwave methods for the measurement of lifetime in semiconductors is discussed.

 [Return to main document.](#)