

# Abstracts

## Effect of Doping Profile Variation on GaAs Hybrid and Double-Read IMPATT Diode Performance at 60 and 94 GHz

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*M.A. El-Gabaly, R.K. Mains and G.I. Haddad. "Effect of Doping Profile Variation on GaAs Hybrid and Double-Read IMPATT Diode Performance at 60 and 94 GHz." 1984 Transactions on Microwave Theory and Techniques 32.10 (Oct. 1984 [T-MTT]): 1342-1352.*

Doping profile parameters were varied in a computer optimization of hybrid and double-read GaAs IMPATT diodes at 60 and 94 GHz. The energy-momentum transport model was used to simulate each structure. Optimum results for the various structures that were studied are presented and compared.

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