

Abstracts

Millimeter-Wave Semiconductor Devices

N.B. Kramer. "Millimeter-Wave Semiconductor Devices." 1976 Transactions on Microwave Theory and Techniques 24.11 (Nov. 1976 [T-MTT] (Special Issue on Millimeter Waves: Circuits, Components, and Systems)): 685-693.

Special techniques used in the construction of various types of millimeter-wave diodes are presented. The performance of millimeter Gunn and IMPATT devices is reviewed and other factors influencing the application of these diodes are discussed. The performance and characteristics of small-area diodes used for millimeter-wave modulation, mixing, and detection are also reviewed. Several shortcomings in the present design and application of millimeter diodes are pointed out with suggestions for further work.

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