
MICROWAVE DIODES AND TRANSISTORS

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ABSTRACT

This paper will review the microwave areas in which semiconductor diodes of various types and transistors are currently being used. Included will be such areas as amplifiers, harmonic generators, switches, detectors and mixers, limiters and duplexers, attenuators and phase shifters. The extent of importance of contributions to the entire microwave field will be discussed.

The different areas will then be examined in more detail as regards the device contributions to performance, with emphasis on present limitations and future prospects. The various devices will be evaluated individually to indicate the quality factors involved and what may conceivably be modified and improved to meet future needs.

NOTES

LEL Inc.

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LEL-Line microwave components using strip techniques. An extensive line of low noise receiving equipment including microwave mixer-preamplifiers, telemetry preamplifiers and IF amplifiers