

Abstracts

Microwave Solid-State Sources

B.C. De Loach and B.C. De Loach, Jr.. "Microwave Solid-State Sources." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 28-29.

This paper has a three-fold purpose: (1) to present a simple physical description and the basic operating principles of the solid state devices currently capable of generating coherent microwave power, including transistors, harmonic generators, tunnel diodes, avalanche transit time (IMPATT) diodes, and Gunn diodes; (2) to summarize the present state of the art for each device; and (3) to ascertain the limitations imposed on each device by device physics, and to compare their potentialities.

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