

Abstracts

Present State of the Millimeter Wave Generation and Technique Art--1958

P.D. Coleman and R.C. Becker. "Present State of the Millimeter Wave Generation and Technique Art--1958." 1959 Transactions on Microwave Theory and Techniques 7.1 (Jan. 1959 [T-MTT]): 42-61.

Two of the few fruitful approaches to the low millimeter and submillimeter wave generation problem appear to be frequency multiplication by means of nonlinear phenomena and frequency conversion by parametric systems. Current work on frequency multiplication using relativistic megavolt beams, crystal diodes, field emitters, ferrites, etc., is reviewed. A brief account of present efforts to extend conventional tubes below wavelengths of 3 mm is presented. Waveguide components used at 1 to 2 mm are described.

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