

Abstracts

Report of Advances in Microwave Theory and Techniques-1954

D.D. King. "Report of Advances in Microwave Theory and Techniques-1954." 1955 Transactions on Microwave Theory and Techniques 3.3 (Apr. 1955 [T-MTT]): 4-7.

The field of interest indicated by the title includes the transmission, control, measurement, and generation of microwaves. We shall consider transmission only in the form of guided waves, leaving antenna and propagation problems as a subject deserving of a review in its own right. Similarly, we shall take note of the circuit aspects of microwave amplifiers and generators. Space charge, focusing, and noise problems associated with microwave oscillators are probably best considered separately, since they often require very different theoretical approaches and experimental techniques. With these boundaries to our review established, we must proceed to subdivide the area of interest for detailed discussion. We follow here a somewhat arbitrary set of headings which aim to clarify and codify the material without duplication.

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