

# Abstracts

## Report of Advances in Microwave Theory and Techniques-1955

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*D.D. King. "Report of Advances in Microwave Theory and Techniques-1955." 1956 Transactions on Microwave Theory and Techniques 4.2 (Apr. 1956 [T-MTT]): 68-74.*

The theory and techniques we wish to review comprise the transmission, control, measurement, and generation of microwaves. Excluded are antenna and propagation problems, as well as the specifically electronic aspects of microwave amplifiers and generators. To order the subjects being considered we have established the following broad headings: I. Waveguides; II.

Gyromagnetic Media; III. Measurements; IV. Detection; V. Sources. Within each of these, more specific subdivisions help to classify the large number of papers which have appeared. The large quantity of papers, and the attendant number of subdivisions needed to order them, are proof of the broad activity in the microwave field. However, what was once considered a small area has thereby been subdivided into even smaller parts. In this review, we have provided many subcategories in order to show more clearly the different directions of effort in the microwave field. We hope this does not lend support to the superspecialist, interested only in say TE/sub 01n/ mode reaction wavemeter design in the P-band. To the reader with such limited interests we must address a warning: our discussion is not cross-referenced, and waveguide measurements on gyromagnetic media might be listed under I, II, or III depending on relative emphasis.

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