

Abstracts

Microwave Components

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This paper describes the development of some of the microwave components by the R-f Group at the Radiation Laboratory MIT. The examples are drawn mainly from the author's limited experience. Among them are the introduction of "broad-banding" and "preplumbing," the problem of crystal burnout, the design of crystal mixers, and devices using the Magic-Tee. Among latter were the frequency stabilization of klystrons and a related proposal for a narrow band duplex microwave communication system. With the war's successful conclusion, much of the experience was carried over into fundamental research, with microwave spectroscopy, radio astronomy, and nuclear and electronic magnetic resonance as relatively direct beneficiaries.

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