

Abstracts

A Recording Microwave Spectrograph

D. Ilias and G. Boudouris. "A Recording Microwave Spectrograph." 1961 Transactions on Microwave Theory and Techniques 9.2 (Mar. 1961 [T-MTT]): 144-152.

The principle of operation and the fundamentals of realization of a recording microwave spectrograph designed for use in the study of the absorption and the index of refraction of gases under medium pressures (1 mm Hg to 1 atm) are presented. The apparatus results from a similar spectrograph with synchroscope, in which the responses of the cavity resonators are interpreted by means of a pulse method. The high performances of the apparatus render its use advantageous, not only as a spectrograph, but also as an accurate recording refractometer, as well as a direct-reading Q-meter.

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