

Characteristics of a Periodic Type of Microwave Sampling Cavity

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For years, various properties of gaseous media have been measured using microwave cavities as the sampling device. Although extensive work has been done in this field with respect to the design of refractometers and microwave spectrometers, very little effort has been directed toward the determination of the variation of sampling cavity characteristics caused by opening it to the sampled medium. In this paper, a special type of spaced-ring cavity will be analyzed and the limits to which it may be opened to the sampled medium examined in detail.

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