

Abstracts

Application of a Fast Microwave Switch to High-Peak-Power Plasma Diagnostic Experiments (Correspondence)

H. Goldie and L. Lapson. "Application of a Fast Microwave Switch to High-Peak-Power Plasma Diagnostic Experiments (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.1 (Jan. 1964 [T-MTT]): 143-144.

The purpose of this communication is to report a unique method which eliminates difficulties encountered when observing a microwave pulse of high energy transmitted through a plasma. It has become increasingly important to observe the characteristics of low-pressure plasmas being irradiated with high power microwave pulses. Knowing the time dependency of electron density during the time in which the high power pulse is irradiating, the plasma gives an insight into recombination, diffusion, degree of ionization, etc.

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