

Abstracts

Plane-Wave Interaction with Structures of Thin Absorbing Films (Short Papers)

H.L. Hartnagel. "Plane-Wave Interaction with Structures of Thin Absorbing Films (Short Papers)." 1980 Transactions on Microwave Theory and Techniques 28.6 (Jun. 1980 [T-MTT]): 667-669.

Electromagnetic plane-wave absorption by resistive films of finite dimensions are considered. It is proposed that the effect of edge diffraction from a finite film causes the experimentally observed frequency-dependent sensitivity of thin-film microwave-power monitors. Methods are outlined to prevent such frequency dispersion. It is pointed out that the position of a microwave power source can be determined by 3 pairs of perpendicularly placed thin-film monitors.

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