

Abstracts

Harmonic Generation Inside a Plasma Column at Resonance (Correspondence)

R.E. McIntosh. "Harmonic Generation Inside a Plasma Column at Resonance (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.11 (Nov. 1968 [T-MTT]): 950-951.

Harmonic generation inside a plasma column at resonance is considered in this correspondence. Experiments were performed in which harmonics of an S-band signal were observed. It is of interest that enhancement of each harmonic occurs not only at the Tonks-Dattner resonances of the incident signal, but also at the resonances of the harmonic itself. Furthermore, the experiments demonstrate that at high incident power levels the relationship between the power in the exciting and harmonically generated waves is not simple at resonance.

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