Abstracts

Design of Optimum Acoustic Surface Wave Delay Lines at Microwave Frequencies (Short Papers)

A.J. Slobodnik, Jr. and T.L. Szabo. "Design of Optimum Acoustic Surface Wave Delay Lines at Microwave Frequencies (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.4 (Apr. 1974 [T-MTT]): 458-462.

Optimum procedures for designing microwave acoustic surface wave delay lines are given. Combined beam steering fraction loss curves are provided as a function of the basic material parameter, the slope of the power flow angle, to allow optimum choice of material for a given application. Methods for designing uniform periodic interdigital transducers including finger ohmic loss, lossy tuning elements, and parasitic capacitance have been extended to account for beam steering and diffraction.

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