

Abstracts

Acoustic Scattering Parameters of the Electrically Loaded Interdigital Surface Wave Transducer (Correspondence)

H.M. Gerard. "Acoustic Scattering Parameters of the Electrically Loaded Interdigital Surface Wave Transducer (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.11 (Nov. 1969 [T-MTT] (Special Issue on Microwave Acoustics)): 1045-1046.

Acoustic scattering parameters for the interdigital transducer are calculated as a function of electrical loading and frequency using an equivalent circuit model of the interdigital transducer. Measurements of the surface wave scattering parameters at 100 MHz are reported which are in close agreement with theory. Applications of the interdigital array as an efficient reflector of surface waves and as a weak low-reflecting tapping transducer are discussed.

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