

Abstracts

Surface Wave Delay Line Amplifiers

K.M. Lakin and H.J. Shaw. "Surface Wave Delay Line Amplifiers." 1969 Transactions on Microwave Theory and Techniques 17.11 (Nov. 1969 [T-MTT] (Special Issue on Microwave Acoustics)): 912-920.

The subject of acoustoelectric surface wave delay line amplification is reviewed. Two amplifier configurations are defined: the combined medium amplifier (CMA), and the separated medium amplifier (SMA). These configurations are compared and the problems associated with each one defined. A more detailed description of the SMA is given along with experimental results. A brief analysis is presented; two material constants are defined, and then used to compare materials in terms of SMA applicability at high frequencies.

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