

Abstracts

Application of Acoustic Surface-Wave Technology to Spread Spectrum Communications

D.T. Bell, Jr., J.D. Holmes and R.V. Ridings. "Application of Acoustic Surface-Wave Technology to Spread Spectrum Communications." 1973 Transactions on Microwave Theory and Techniques 21.4 (Apr. 1973 [T-MTT] (Special Issue on Microwave Acoustic Signal Processing)): 263-271.

Spread spectrum transmission is being proposed for an increasing number of digital communication, navigation, and radar systems. One of the reasons is the simplicity and availability of surface-wave devices (SWD) for performing the necessary signal generation and processing. The properties of spread spectrum signals, the operation of SWD's, and their advantages and limitations when used in communication systems are discussed. Spread spectrum terminology and basic concepts are defined in terms common to both systems engineers and device designers.

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