

Abstracts

Surface Wave Parametric Signal Processing

W.R. Shreve, G.S. Kino and M.V. Luukkala. "Surface Wave Parametric Signal Processing." 1972 G-MTT International Microwave Symposium Digest of Technical Papers 72.1 (1972 [MWSYM]): 87-88.

New types of surface acoustic wave devices which utilize parametric interactions between surface acoustic waves to perform signal processing functions will be described. These devices can give real time convolution of two modulated rf signals. Similar devices can also be employed to time invert a modulated rf signal, so two devices can be used in combination to obtain the correlation between two rf signals. As these are the basic signal processing functions required, the devices are also capable of performing fast Fourier transforms and pulse compression of chirped signals.

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