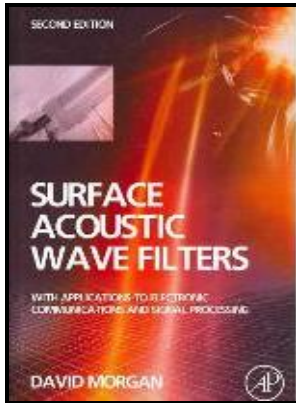


# Surface acoustic wave devices and their signal processing applications

Academic Press - Surface



Description: -

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Signal processing

Surface acoustic wave devices Surface acoustic wave devices and their signal processing applications

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Notes: Includes bibliographical references and index.

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## Surface Acoustic Wave Devices and Their Signal Processing Applications.

This was shown for a variety of applications in open microfluidic systems such as polymerase chain reactions Wixforth et al.

## Surface Acoustic Wave Devices and Their Signal Processing Applications

Material The choice of piezoelectric substrate material is most fundamental, involving a trade off between relative bandwidth, insertion loss, and temperature stability. The influence of diffraction is significant where  $W_n$  is small and the propagation distance is large.

## SAW Technology

On the other hand, diffracted SAWs significantly influence device characteristics in the rejection band where the SAW fields cancel with each other and their strength is comparable to that of the diffracted ones.

## Surface Acoustic Wave Devices and Their Signal Processing Applications.

His paper proposes to investigate the behavior to waves on the surface of an infinite homogeneous isotropic elastic solid. Plotting the initial frequency slopes results in a fairly linear response that can be used to accurately determine Mercury concentration.

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