



# **Surface Acoustic Wave Filters, Second Edition: With Applications to Electronic Communications and Signal Processing (Studies in Electrical and Electronic Engineering)**

*David Morgan*

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## **Surface Acoustic Wave Filters, Second Edition: With Applications to Electronic Communications and Signal Processing (Studies in Electrical and Electronic Engineering) David Morgan**

This book gives the fundamental principles and device design techniques for surface acoustic wave filters. It covers the devices in widespread use today: bandpass and pulse compression filters, correlators and non-linear convolvers and resonators. The newest technologies for low bandpass filters are fully covered such as unidirectional transducers, resonators in impedance element filters, resonators in double-mode surface acoustic wave filters and transverse-coupled resonators using waveguides.

The book covers the theory of acoustic wave physics, the piezoelectric effect, electrostatics at a surface, effective permittivity, piezoelectric SAW excitation and reception, and the SAW element factor. These are the main requirements for developing quasi-static theory, which gives a basis for the non-reflective transducers in transversal bandpass filters and interdigital pulse compression filters. It is also needed for the reflective transducers used in the newer devices.

- \* A thorough revision of a classic on surface acoustic wave filters first published in 1985 and still in print
- \* Uniquely combines easy -to -understand principles with practical design techniques for all the devices in widespread use today
- \* Complete coverage of all the latest devices which are key to mobile phones, TVs and radar systems
- \* Includes a new foreword by Sir Eric Albert Ash

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