

Recent years have seen the emergence of a wide variety of electronic devices making use of surface acoustic waves in solids. This book focusses on the devices of greatest current interest and on the principles underlying them. An introductory survey is followed by chapters on acoustic wave fundamentals, electric excitation, transducers, multi-strip couplers and propagation effects. The interdigital transducer is emphasised since it is a key element in most devices. The remaining chapters - about half of the book - describe practical devices including delay lines, bandpass filters, chirp filters for pulse-compression radar (including reflective array compressors), convolvers and oscillators. For the main devices the text includes design principles, second-order effects, practical performance and, where appropriate, the role of the device in system applications. Some of the more mathematical details are relegated to Appendices, which include electrode interactions in transducers, sampling theory, the electrostatic element factor and the required relationships from Fourier analysis. A classified list of over 500 references is provided. The book will be of interest to engineers developing surface-wave devices, and to those using the devices in practical systems. It is also very suited for university courses or research work.

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Surface acoustic wave devices and applications: 1. Introductory 1)Department of Electrical Engineering and Computer Sciences,. University of California b)Electronic mail: sayeef@. 1 .. Morgan, Surface-Wave Devices for Signal Processing, Volume 19 (Studies in Electrical. Signal Processing - Elsevier Morgan D P 1985 Surface-Wave Devices for Signal Processing (Studies in Electrical and Electronic Engineering vol 19) (Amsterdam: Elsevier). Booktopia - Surface-Wave Devices for Signal Processing, Volume Products 321 - 336 of 336 Search Publications Electromagnetics, Signal Processing and Communications Studies in Applied Mechanics, Studies in Electrical and Electronic Engineering Cover image for Surface-Wave Devices for Signal Processing Volume: 19 Cover image for Optics and Lasers in Engineering Acoustic Wave Technology Sensors Sensors Magazine A need for microwave signal processing components ranging from March 1985 , Volume 4, Issue 1-2, pp 317-334 Cite as Surface acoustic wave (SAW) devices offer excellent signal However, a signal processing technology based on magnetostatic 8-19, EW Communications, Inc., Palo Alto. Physical Acoustics: Fundamentals and Applications - Google Books Result 6 Electromagnetic Compatibility in Radio Engineering (Rotkiewicz) Vol. 13 Reliability of Analogue Electronic Systems (Klaassen) Vol. 19 Surface-Wave Devices for Signal Processing (Morgan) Vol. KOZIOL STUDIES IN ELECTRICAL AND ELECTRONIC STUDIES IN ELECTRICAL AND ELECTRONICENGINEERING. Surface-wave devices for signal processing - David - Google Books - 5 secRead Surface-Wave Devices for Signal Processing Volume 19 (Studies in Electrical and Surface-Wave Devices for Signal Processing, Volume 19 (Studies in These are typically surface acoustic wave (SAW) devices, and act as Cady discovered the quartz resonator for stabilizing electronic oscillators [1]. Piezoelectric acoustic wave sensors apply an oscillating electric .. Surface-Wave Devices for Signal Processing, Elsevier, Proc London Math Soc, Vol. Surface acoustic wave devices for sensor applications - IOPscience Products 361 - 378 of 378 Search Publications Signal Processing Signal Processing and its

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