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Digital signal processing techniques are now so powerful that sometimes it is extremely difficult, if not impossible, for analogue signal processing to achieve the same or closer performance. Added to this, digital signal processors are very affordable and include good development tools and support.

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Readers are shown how to apply all techniques to improve implementations of several DSP algorithms, using both ASICs and off-the-shelf programmable digital signal processors. The book features hundreds of graphs illustrating the various DSP algorithms, examples based on digital filters and transforms clarifying key concepts, and interesting end-of-chapter exercises that help match techniques with applications.

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Usually a digital signal processing system incorporates an Analog Signal Processing or ASP subsystem prior to performing digital signal processing. The purpose of performing ASP is for signal conditioning which usually involves signal amplification and implementation of analog filtering techniques. All DSP systems have what is known as a sampling rate.

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Digital signal processing is the use of digital processing, such as by computers or more specialized digital signal processors, to perform a wide variety of signal processing operations. The digital signals processed in this manner are a sequence of numbers that represent samples of a continuous variable in a domain such as time, space, or frequency. In digital electronics, a digital signal is represented as

a pulse train, which is typically generated by the switching of a transistor. Digital si

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Digital Signal Processing Implementation Using the TMS320C6x Processors Naim Dahnoun, University of Bristol This text is a vital accessory to both students and professionals using the latest TI DSP processors. The DSP processor has become an integral component in a variety of digital communications systems including cellular telephony systems, data modems, and wireless data devices.

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