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Digital Signal Processing (DSP) is a vast and fascinating subject which has exploded in application in recent decades. In its simplest form, high-pass, low-pass, notch, or bandpass filters can be implemented in the digital domain, with far greater precision and stability than analog counterparts, and very often at much lower cost. Fourier Transform techniques, impossible in the analogue domain ...

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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 ...

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This concise and clear text is intended for a senior undergraduate and graduate level, one-semester course on digital signal processing. Emphasis on the use of the discrete Fourier transform (the heart of practical digital signal processing) and comprehensive coverage of the design of commonly used digital filters are the key features of the book.

[Practical Digital Signal Processing - 1st Edition](#)

Digital signal processing (DSP) is concerned with the processing of digital signals or analog signals after converting from analog to digital format. DSP includes subfields like: communication signals processing, radar signal processing, sensor array processing, digital image processing, etc. DSP is usually used with real-world analog signals found in our lives, the first step is usually to ...

[The Scientist and Engineer's Guide to Digital Signal...](#)

1.1 A Brief Introduction to Digital Signal Processing Signal processing is simply the manipulation of the properties of a specific signal to obtain a signal with more desirable properties. Prop- erties such as amplitude, phase, or frequency spectrum may be altered to meet a specific requirement.

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