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Digital signal processing and analog signal processing are subfields of signal processing. DSP applications

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include audio and speech processing, sonar, radar and other sensor array processing, spectral density estimation, statistical signal processing, digital image processing, data compression, video coding, audio coding, image compression, signal processing for telecommunications,

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control systems, biomedical engineering, and seismology, among others.

~~Digital signal processing – Wikipedia~~
12. Jonathan (Y) Stein, "Digital Signal Processing – A Computer Science Perspective", Wiley Student Edition,

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John Wiley and Sons (Asia) Pte Ltd.

Available in inexpensive Indian Edition. It gives some reasonably detailed descriptions of applications, and architectures for Digital Signal Processing.

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Digital Signal Processing and Applications with the OMAP-L138 eXperimenter provides an extensive and comprehensive set of program examples to aid instructors in teaching DSP in a laboratory using audio frequency signals—making it an ideal

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text for DSP courses at senior undergraduate and postgraduate levels.

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and video compression (the quality depends on the sampling rate chosen - higher sampling rate = higher quality. The file size can be compressed by applying source coding, such as Huffman coding.)

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An informal and easy-to-understand introduction to digital signal processing, this treatment emphasizes digital audio and applications to computer music. Topics include phasors and tuning forks, the wave equation, sampling and quantizing, feedforward and feedback filters, comb

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With string filters, periodic sounds, transform methods, and filter design.

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DSP technology enables the processing and manipulation of sensory data obtained from a variety of real-world sources.

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Applications of a Digital signal processing system. We use digital signal processing in:

Telecommunication For echo cancellation. Equalization (Think about tuning your radio for bass and treble). Filtering (Removing unwanted signals using specially designed filters

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With the Infinite Impulse Response Filter (IIR).

~~What is digital signal processing (DSP)? A complete overview~~

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programming. The sampling operation will be explained both in time domain and frequency domain.

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and space measuring applications, such as analysis of noise received from outer space by radio telescopes or analysis of satellite data. These can be divided into two classes.

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