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design and practical application of digital filters description and processing of random signals, including correlation, filtering, and the detection of signals in noise Programs in C and equivalent PASCAL are listed in an appendix. Typical results and graphic plots from all the programs are illustrated and discussed in the main text.

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Digital signal processing and analog signal processing are subfields of signal processing. DSP applications 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, control systems, biomedical engineering, and seismology, among others.

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

~~Digital Signal Processing and its Applications – Course~~

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 text for DSP courses at senior undergraduate and postgraduate levels.

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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

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

~~A Digital Signal Processing Primer: with Applications to ...~~

Digital signal processing, or DSP, is a powerful technology with applications in many areas of science, engineering, health care, and communications. 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 like the Infinite Impulse Response Filter (IIR).

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Digital signal processing (DSP) has proven to be very well suited for air 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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