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 is a system that performs
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 straightforward way to
 implement a digital filter
 is by convolving the input
 signal with the digital
 filter's impulse response.
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 can be made in this
 manner. (This should be
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 unwanted parts of the
 signal, such as random
 noise, or to extract useful
 parts of the signal, such
 as the components lying
 within a certain frequency
 range.INTRODUCTION TO
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procedures are introduced and developed: also convolution, correlation, the Discrete Fourier Transform and its fast computation algorithms. Then follow finite impulse response (FIR) filters, infinite impulse response (IIR) filters, multirate filters, adaptive filters, and topics from communication and control. Digital Filters and Signal Processing in Electronic ... On Search Results page use Filters found in the left hand column to refine your search. A Beginner's Guide to Digital Signal Processing (DSP) ... The following document describes the basic concepts of Digital Signal Processing (DSP) and also contains a variety of Recommended Reading links for more in-depth information. A Beginner's Guide to Digital Signal Processing (DSP) ... Lecture Series on Digital Signal Processing by Prof. S. C. Dutta Roy, Department of Electrical Engineering, IIT Delhi. For More details on NPTEL visit <http://nptel.ac.in/> Lecture 1 - Digital Signal Processing Introduction Digital Signal Processing lecture by Dr Bernd Porr at the University of Glasgow. Topics: Fourier Transform, FIR filters and IIR filters

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The most straightforward way to implement a digital filter is by convolving the input signal with the digital filter's impulse response. All possible linear filters can be made in this manner. (This should be obvious. If it isn't, you probably don't have the background to understand this section on filter design.

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Fundamental signal processing procedures are introduced and developed: also convolution, correlation, the Discrete Fourier Transform and its fast computation algorithms. Then follow finite impulse response (FIR) filters, infinite impulse response (IIR) filters, multirate filters, adaptive filters, and topics from communication and control.

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unwanted parts of the signal, such as random noise, or to extract useful parts of the signal, such as the components lying within a certain frequency range.

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The course proceeds to cover digital network and nonrecursive (finite impulse response) digital filters. Digital Signal Processing concludes with digital filter design and a discussion of the fast Fourier transform algorithm for computation of the discrete Fourier transform.

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Optical filters were originally developed for purposes other than signal processing such as lighting and photography. With the rise of optical fiber technology, however, optical filters increasingly find signal processing applications and signal processing filter terminology, such as longpass and shortpass, are entering the field.

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