

# Digital Signal Processing

## Chapter 1 : Discrete Time Signals

Q. 1 With the help of block schematic diagram explain basic elements of digital signal processing.

Ans. :

**Basic elements of digital signal processing :**

Fig. 1.1 shows that the basic elements of digital signal processing system.



Fig. 1.1

The different blocks of this system are as follows :

**1. Input signal :**

It is the signal generated from some transducer or from some communication system. It may be biomedical signal like ECG or EEG. Generally input signal is analog in nature. It is denoted by  $x(t)$ .

**2. Anti-aliasing filter :**

Anti aliasing filter is basically a low pass filter. It is used for the following purposes :

- It removes the high frequency noise contain in input signal.
- As the name indicates; it avoids aliasing effect. That means it is used to band limit the signal.

**3. Sample and hold circuit :**

This block takes the samples of input signal. It keeps the voltage level of input signal relatively constant. Sometimes amplifiers are required to bring the voltage level of input signal upto the required voltage level of ADC.

**4. Analog to Digital Converter (ADC) :**

This block is used to convert analog signal into digital form. This is required, because digital signal processor accepts the signal which is digital in nature.

**5. Digital signal processor :**

It processes input signal digitally. In a simple language processing of input signal means modifying the signal as per requirement. For this purpose DSP processors like ADSP 2100 or TMS 320 can be used.

**6. Digital to Analog Converter (DAC) :**

The output of digital signal processor is digital in nature. But the required final output is analog in nature. So to convert digital signal into analog signal DAC is used.

# Digital Signal Processing Question And Answer Cse

**M Lipman**



## **Digital Signal Processing Question And Answer Cse:**

Dsp Made Easy Dr. Sandeep Ajabrao Awachar, Digital Signal Processing forms to be one of the most powerful technologies that is shaping science and engineering in the current century It is the science of using computers to understand any type of signal data Taking into consideration the complexity in the subject the effort was made to make it easy to understand the concepts in short through the way of multiple choice questions The book contains about 200 multiple choice questions based on introduction to DSP Operations on signals Properties of signals Linear time invariant systems linear convolution Correlation Z Transform Fourier transform Analog and digital filters Design of filters Realization of filters

**Digital Signal Processing** C. Ramesh Babu Durai,2005-12      Introductory Digital Signal Processing with Computer Applications Paul A. Lynn,Wolfgang Fuerst,1998-06-11 An excellent introductory book Review of the First Edition in the International Journal of Electrical Engineering Education it will serve as a reference book in this area for a long time Review of Revised Edition in Zentralblatt f r Mathematik Germany Firmly established as the essential introductory Digital Signal Processing DSP text this second edition reflects the growing importance of random digital signals and random DSP in the undergraduate syllabus by including two new chapters The authors practical problem solving approach to DSP continues in this new material which is backed up by additional worked examples and computer programs The book now features fundamentals of digital signals and systems time and frequency domain analysis and processing including digital convolution and the Discrete and Fast Fourier Transforms 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 The overall approach assumes no prior knowledge of electronics computing or DSP An ideal text for undergraduate students in electrical electronic and other branches of engineering computer science applied mathematics and physics Practising engineers and scientists will also find this a highly accessible introduction to an increasingly important field      *Advances in Computer Science and Education Applications* Mark Zhou,Honghua Tan,2011-06-30 This two volume set CCIS 201 and CCIS 202 constitutes the refereed proceedings of the International Conference on Computer Science and Education CSE 2011 held in Qingdao China in July 2011 The 164 revised full papers presented in both volumes were carefully reviewed and selected from a large number of submissions The papers address a large number of research topics and applications from artificial intelligence to computers and information technology from education systems to methods research and other related issues such as database technology computer architecture software engineering computer graphics control technology systems engineering network communication and other advanced technology computer education and life long education

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**Technical Challenges and Design Issues in Bangla Language Processing** Karim, M. A., Kaykobad, M., Murshed, M., 2013-04-30 Many take advantage of software and hardware accessibility in the English language However for non native speakers this inevitably becomes a problem specifically for the complex Bangla language which is not easily integrated into the world of technology Technical Challenges and Design Issues in Bangla Language Processing addresses the difficulties as well as the overwhelming benefits associated with creating programs and devices that are accessible to the speakers of the Bangla language Professionals students and researchers interested in expanding the fields of computing information and knowledge management and communication technologies in the non English realm will benefit from this comprehensive collection of research

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**Mathematical Reviews**, 2007 Digital Signal Processing Sanjit Mitra, 2005-01-06 Digital Signal Processing A Computer Based Approach is intended for a two semester course on digital signal processing for seniors or first year graduate students Based on user feedback a number of new topics have been added to the third edition while some excess topics from the second edition have been removed The author has taken great care to organize the chapters more logically by reordering the sections within chapters More worked out examples have also been included The book contains more than 500 problems and 150 MATLAB exercises New topics in the third edition include short time characterization of discrete time signals expanded coverage of discrete time Fourier transform and discrete Fourier transform prime factor algorithm for DFT computation sliding DFT zoom FFT chirp Fourier transform expanded coverage of z transform group delay equalization of IIR digital filters design of computationally efficient FIR digital filters semi symbolic analysis of digital filter structures spline interpolation spectral factorization discrete wavelet transform

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