

# 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 :**

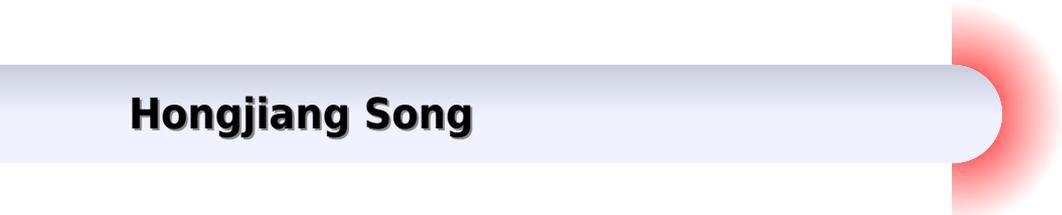
It processes input signal digitally. In a simple language processing of input signal means modifying the signal as per requirement. For this purpose DSP processors like ADSP 2100 or TMS 320 can be used.

**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.

# Signal Processing Interview Questions

**Hongjiang Song**



## Signal Processing Interview Questions:

*Structural VLSI Analog Circuit Design - Principles, Problem Sets and Solution Hints* Hongjiang Song, 2015 This reference was developed for a graduate level course EEE598 Structural VLSI Analog Circuit Design Based on Symmetry offered in the School of Electrical Computer and Energy Engineering at Arizona State University The materials are organized in 24 topics including the collection of design problems in structural VLSI analog circuit design **Principles of VLSI Design -**

**Symmetry, Structures and Methods** Hongjiang Song, 2016-06-03 This is the textbook for Dr Hongjiang Song's EEE598 VLSI Analog Circuit Design Based Symmetry class in Ira A Fulton Schools of Engineering at Arizona State University The course introduces structural VLSI analog circuit design concepts and techniques for analog circuit blocks and systems such as the operational amplifiers PLL DLL bandgap reference A/D D/A converters Symmetry principles and associated circuit constraints structures and methods are adopted to mitigate VLSI PVT and other variations for better circuit performance functionality and design productivity across multiple VLSI process nodes [Making Embedded Systems](#) Elecia

White, 2011-11 Eager to develop embedded systems These systems don't tolerate inefficiency so you may need a more disciplined approach to programming This easy to read book helps you cultivate a host of good development practices based on classic software design patterns as well as new patterns unique to embedded programming You not only learn system architecture but also specific techniques for dealing with system constraints and manufacturing requirements Written by an expert who's created embedded systems ranging from urban surveillance and DNA scanners to children's toys Making Embedded Systems is ideal for intermediate and experienced programmers no matter what platform you use Develop an architecture that makes your software robust and maintainable Understand how to make your code smaller your processor seem faster and your system use less power Learn how to explore sensors motors communications and other I/O devices Explore tasks that are complicated on embedded systems such as updating the software and using fixed point math to implement complex algorithms *Nature-Inspired VLSI Circuits - From Concept to Implementation* Hongjiang

Song, 2018-05-30 Nature inspired VLSI circuit technology offers unique approach for studying analyzing designing and implementing VLSI circuits through perception reasoning and action mimicking the nature Such circuit technology covers various aspects of nature inspired VLSI circuit design techniques such as the design rule bases design principles computing and information processing algorithms sensing and interfacing techniques energy harvesting and power management

**VLSI Reference Circuits - Theory, Design, and Applications** Hongjiang Song, **Higher Education Transitions** Eva Kyndt, Vincent Donche, Keith Trigwell, Sari Lindblom-Ylännö, 2017-05-18 In the current era where lifelong learning is brought to the fore higher education can no longer be regarded as an isolated trajectory within one's educational career as many students face substantial challenges in crafting their professional future More specifically the transition from school to higher education and continuing to the labour market are often a difficult hurdles for many students Almost half of students

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**Communicating for Results** Cheryl Hamilton,Cordell Parker,1990 This book covers interpersonal interviewing and small group communication skills as well as informative and persuasive presentations Hamilton draws on case studies and research from both management and communication literature to develop ideas concepts and techniques in the book

Rehabilitation R & D progress reports 1996 ,1983 **Television Field Production and Reporting** Frederick Shook,1989 **Systems Analysis and Design** David P. Tegarden,Binny Samuel,Roman Lukyanenko,Alan Dennis,Barbara Haley Wixom,2025-07-09 Enables readers to analyze and design systems not just read about IT Systems Analysis and Design An Object Oriented Approach with UML Seventh Edition captures the dynamic aspects of the field by keeping students focused on doing SAD while presenting the core set of skills that every systems analyst needs to know today and in the future The team of expert authors introduces each major technique explains what it is explains how to do it presents an example and provides opportunities for students to practice before they do it for real in a project After reading each chapter students will be able to perform that step in the system development process NEW TO THIS EDITION A greater emphasis on developing information systems using an incremental and iterative approach and verifying validating and testing throughout the book Chapter on agile development Chapter that overviews the supporting workflows of the Unified Process Greatly expanded the Library Management System LMS example integrated throughout the chapters Converted the Campus Housing example to a set of Your Turn exercises Also suggested answers to each exercise are included in the Instructor s Manual

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