

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 Interview Questions Answers

Scott C. Dulebohn



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Table of Contents Digital Signal Processing Interview Questions Answers

1. Understanding the eBook Digital Signal Processing Interview Questions Answers
 - The Rise of Digital Reading Digital Signal Processing Interview Questions Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Digital Signal Processing Interview Questions Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in a Digital Signal Processing Interview Questions Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Signal Processing Interview Questions Answers
 - Personalized Recommendations

- Digital Signal Processing Interview Questions Answers User Reviews and Ratings
- Digital Signal Processing Interview Questions Answers and Bestseller Lists
- 5. Accessing Digital Signal Processing Interview Questions Answers Free and Paid eBooks
 - Digital Signal Processing Interview Questions Answers Public Domain eBooks
 - Digital Signal Processing Interview Questions Answers eBook Subscription Services
 - Digital Signal Processing Interview Questions Answers Budget-Friendly Options
- 6. Navigating Digital Signal Processing Interview Questions Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Digital Signal Processing Interview Questions Answers Compatibility with Devices
 - Digital Signal Processing Interview Questions Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Digital Signal Processing Interview Questions Answers
 - Highlighting and Note-Taking Digital Signal Processing Interview Questions Answers
 - Interactive Elements Digital Signal Processing Interview Questions Answers
- 8. Staying Engaged with Digital Signal Processing Interview Questions Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Digital Signal Processing Interview Questions Answers
- 9. Balancing eBooks and Physical Books Digital Signal Processing Interview Questions Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Digital Signal Processing Interview Questions Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Digital Signal Processing Interview Questions Answers
 - Setting Reading Goals Digital Signal Processing Interview Questions Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Digital Signal Processing Interview Questions Answers
 - Fact-Checking eBook Content of Digital Signal Processing Interview Questions Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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