

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 :

- (a) It removes the high frequency noise contain in input signal.
- (b) 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.

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Table of Contents Ninformation Processing Exam Papers

1. Understanding the eBook Ninformation Processing Exam Papers
 - The Rise of Digital Reading Ninformation Processing Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ninformation Processing Exam Papers
 - 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 an Ninformation Processing Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ninformation Processing Exam Papers

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

- Fact-Checking eBook Content of Ninformation Processing Exam Papers
- 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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