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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1. Understanding the eBook Digital Image Processing Exam Questions And Answers Full
    - The Rise of Digital Reading Digital Image Processing Exam Questions And Answers Full
    - Advantages of eBooks Over Traditional Books
2. Identifying Digital Image Processing Exam Questions And Answers Full
    - 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 Digital Image Processing Exam Questions And Answers Full
    - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Image Processing Exam Questions And Answers Full
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    - Digital Image Processing Exam Questions And Answers Full and Bestseller Lists
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    - ePub, PDF, MOBI, and More
    - Digital Image Processing Exam Questions And Answers Full Compatibility with Devices
    - Digital Image Processing Exam Questions And Answers Full Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Digital Image Processing Exam Questions And Answers Full
    - Highlighting and Note-Taking Digital Image Processing Exam Questions And Answers Full
    - Interactive Elements Digital Image Processing Exam Questions And Answers Full
8. Staying Engaged with Digital Image Processing Exam Questions And Answers Full
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Digital Image Processing Exam Questions And Answers Full
9. Balancing eBooks and Physical Books Digital Image Processing Exam Questions And Answers Full
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Digital Image Processing Exam Questions And Answers Full
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Digital Image Processing Exam Questions And Answers Full
    - Setting Reading Goals Digital Image Processing Exam Questions And Answers Full
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Digital Image Processing Exam Questions And Answers Full
    - Fact-Checking eBook Content of Digital Image Processing Exam Questions And Answers Full
    - 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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