Digital Signal Processing
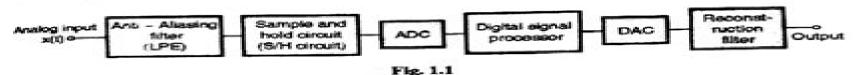
Chapter 1 : Discrete Time Signals

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.

Analog input x(t) → | Anti – Aliasing filter (LPF) | → | Sample and hold circuit (S/H circuit) | → | ADC | → | Digital signal processor | → | DAC | → | Reconst- ruction filter | → Output

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.

Digital Image Processing Exam Questions And Answers

Michal Rosen-Zvi

Digital Image Processing Exam Questions And Answers:

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provides an introduction to the fundamentals of computer image processing and classification commonly called pattern recognition in other applications The book begins with a discussion of digital scanners and imagery and two key mathematical concepts for image processing and classification spatial filtering and statistical pattern recognition This is followed by separate chapters on image processing and classification techniques that are widely used in the remote sensing community The emphasis throughout is on techniques that assist in the analysis of images not particular applications of these techniques The book also has four appendixes featuring a bibliography an introduction to computer binary data representation and image data formats a discussion of interactive image processing and a selection of exam questions from the Image Processing Laboratory course at the University of Arizona This book is intended for use as either a primary source in an introductory image processing course or as a supplementary text in an intermediate level remote sensing course The academic level addressed is upper division undergraduate or beginning graduate and familiarity with calculus and basic vector and matrix concepts is assumed   California RDA Exam Success Guide 2025/2026 Lara Fitzroy,2025-08-18 The California RDA Exam Success Guide 2025 2026 is an essential study companion for candidates preparing for the Registered Dental Assistant RDA exam in California With a clear focus on the latest test requirements this guide provides both the knowledge and practice needed to succeed Featuring 585 exam style practice questions it helps you build confidence master critical skills and achieve certification success Inside you ll find 585 practice questions with detailed explanations to reinforce learning Coverage of all exam domains including patient care infection control dental procedures and California specific laws and ethics Step by step explanations designed to clarify key RDA concepts Exam strategies and tips to improve accuracy and reduce test anxiety Aligned with the 2025 2026 exam format to keep your preparation current Whether you re a first time test taker or seeking to retake the exam this guide is designed to equip you with the confidence you need to start your dental assisting career in California   **Computer Fundamentals MCQ (Multiple Choice Questions)** Arshad Iqbal,2019-06-15 The Computer Fundamentals Multiple Choice Questions MCQ Quiz with Answers PDF Computer Fundamentals MCQ PDF Download Quiz Questions Chapter 1 16 Practice Tests with Answer Key Grade 7 12 CS Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Computer Fundamentals MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Computer Fundamentals MCQ PDF book helps to practice test questions from exam prep notes The Computer Fundamentals MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Computer Fundamentals Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Applications of computers commercial applications central processing unit and execution of programs communications hardware terminals and interfaces introduction to computer software and hardware data preparation and input digital logic file systems information processing input errors and program testing jobs in computing processing systems

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