

OBJECTIVES:

- To introduce discrete Fourier transform and its applications.
- To teach the design of infinite and finite impulse response filters for filtering undesired signals.
- To introduce signal processing concepts in systems having more than one sampling frequency.

UNIT I SIGNALS AND SYSTEMS**9**

Basic elements of DSP – concepts of frequency in Analog and Digital Signals – sampling theorem – Discrete – time signals, systems – Analysis of discrete time LTI systems – Z transform – Convolution – Correlation.

UNIT II FREQUENCY TRANSFORMATIONS**9**

Introduction to DFT – Properties of DFT – Circular Convolution - Filtering methods based on DFT – FFT Algorithms - Decimation – in – time Algorithms, Decimation – in – frequency Algorithms – Use of FFT in Linear Filtering – DCT – Use and Application of DCT.

UNIT III IIR FILTER DESIGN**9**

Structures of IIR – Analog filter design – Discrete time IIR filter from analog filter – IIR filter design by Impulse Invariance, Bilinear transformation, Approximation of derivatives – (LPF, HPF, BPF, BRF) filter design using frequency translation.

UNIT IV FIR FILTER DESIGN**9**

Structures of FIR – Linear phase FIR filter – Fourier Series - Filter design using windowing techniques (Rectangular Window, Hamming Window, Hanning Window), Frequency sampling techniques.

UNIT V FINITE WORD LENGTH EFFECTS IN DIGITAL FILTERS**9**

Binary fixed point and floating point number representations – Comparison - Quantization noise – truncation and rounding – quantization noise power- input quantization error- coefficient quantization error – limit cycle oscillations-dead band- Overflow error-signal scaling.

TOTAL (L:45+T:15): 60 PERIODS**OUTCOMES:**

Upon completion of the course, students will be able to:

- Perform frequency transforms for the signals.
- Design IIR and FIR filters.
- Finite word length effects in digital filters

TEXT BOOK:

1. John G. Proakis and Dimitris G.Manolakis, "Digital Signal Processing – Principles, Algorithms & Applications", Fourth Edition, Pearson Education, Prentice Hall, 2007.

REFERENCES:

1. Emmanuel C.Ifeachor, and Barrie.W.Jervis, "Digital Signal Processing", Second Edition, Pearson Education, Prentice Hall, 2002.
2. Sanjit K. Mitra, "Digital Signal Processing – A Computer Based Approach", Third Edition, Tata Mc Graw Hill, 2007.
3. A.V.Oppenheim, R.W. Schafer and J.R. Buck, Discrete-Time Signal Processing, 8th Indian Reprint, Pearson, 2004.
4. Andreas Antoniou, "Digital Signal Processing", Tata McGraw Hill, 2006.

Dsp Question Paper For Cse Anna University

T. JAYASREE, Dr D Sam Harison



Dsp Question Paper For Cse Anna University:

Digital Signal Processing C. Ramesh Babu Durai, 2005-12

Digital Signal Processing Abdaheer, 2007-01-01

Who's Who in America Marquis Who's Who, Inc, 2002

Dsp Made Easy Dr. Sandeep Ajabrao Awachar, Digital Signal

Processing forms to be one of the most powerful technologies that is shaping science and engineering in the current century. It is the science of using computers to understand any type of signal data. Taking into consideration the complexity in the subject, the effort was made to make it easy to understand the concepts in short through the way of multiple choice questions. The book contains about 200 multiple choice questions based on introduction to DSP, Operations on signals, Properties of signals, Linear time invariant systems, linear convolution, Correlation, Z Transform, Fourier transform, Analog and digital filters, Design of filters, Realization of filters.

Digital Signal Processing Architecture and Programming T. JAYASREE, Dr D Sam Harison, 2025-02-28

Programmable DSP devices are becoming gradually available and affordable. These devices have therefore become prevalent in the industry for the design of products. Subsequently, many undergraduate senior projects and graduate projects are planned and executed using these devices. Many students attempt these projects based on a first level course on digital signal processing. The books that are used in these classes do not yet cover the topics from the implementation point of view. There is normally a wide gap in students' sympathetic of DSP algorithms and how to use programmable DSP devices to implement them. This is a DSP implementation oriented textbook that has been written based on the authors' experience in teaching graduate and undergraduate courses on the subject. The objective of the book is to aid the reader to know the architecture, programming and interfacing of commercially existing programmable DSP devices in the question answer form. The book is intended for undergraduate and post graduate students in Electronics, Electrical Engineering and computer science programs. The book will also be useful to engineers in industry betrothed in the design of DSP systems. This book comprises 5 chapters and covers the architectural topics of programmable DSP devices and their association to the algorithmic requirements, architectures of commercially popular programmable devices and the usage of such strategies for software development and system design. These questions are covered using a popular family of DSP devices TMS320C54xx from Texas Instruments.

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