

CBCS SCHEME

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17EC52

Fifth Semester B.E. Degree Examination, Dec.2019/Jan.2020
Digital Signal Processing

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

1. a. Show that finite duration sequence of length L can be reconstructed from the equidistant N samples of its Fourier transform, where $N \geq L$. (06 Marks)
 b. Compute the 6-point DFT of the sequence $x(n) = \{1, 0, 3, -1, 3, 0\}$. (08 Marks)
 c. Find the N -point DFT of the sequence $x(n) = a^n$, $0 \leq n \leq N-1$. (06 Marks)

OR

2. a. Determine the 6-point sequence $x(n)$ having the DFT $X(K) = \{12, -3 - j\sqrt{3}, 0, 0, 0, -3 + j\sqrt{3}\}$. (06 Marks)
 b. Derive the equation to express z -transform of a finite duration sequence in terms of its N -point DFT. (06 Marks)
 c. Compute the circular convolution of the sequences $x_1(n) = \{1, 2, 2, 1\}$ and $x_2(n) = \{-1, -2, -2, -1\}$. (06 Marks)

Module-2

3. a. State and prove the modulation property (multiplication in time-domain) of DFT. (06 Marks)
 b. The even samples of an eleven-point DFT of a real sequence are : $X(0) = 8$, $X(2) = -2 + j3$, $X(4) = 3 - j5$, $X(6) = 4 + j2$. $X(8) = -5 - j9$ and $X(10) = \sqrt{3} - j2$. Determine the odd samples of the DFT. (06 Marks)
 c. An LTI system has impulse response $h(n) = \{2, 1, -1\}$. Determine the output of the system for the input $x(n) = \{1, 2, 3, 3, 2, 1\}$ using circular convolution method. (08 Marks)

OR

4. a. State and prove circular time reversal property of DFT. (06 Marks)
 b. Determine the number of real multiplications, real additions, and trigonometric functions required to compute the 8-point DFT using direct method. (04 Marks)
 c. Find the output $y(n)$ of a filter whose impulse response is $h(n) = \{1, 2, 1\}$, and the input is $x(n) = \{3, -1, 0, 1, 3, 2, 0, 1, 2, 1\}$ using overlap-add method, taking $N = 6$. (10 Marks)

Module-3

5. a. Compute the 8-point DFT of the sequence $x(n) = \cos(\pi n/4)$, $0 \leq n \leq 7$, using DIT-FFT algorithm. (10 Marks)
 b. Given $x(n) = \{1, 2, 3, 4\}$, compute the DFT sample $X(3)$ using Goestzel algorithm. (06 Marks)
 c. Determine the number of complex multiplications and complex additions required to compute 64-point DFT using radix-2 FFT algorithm. (04 Marks)

Digital Signal Processing Question Paper

Michael Weeks



Digital Signal Processing Question Paper:

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

Digital Signal Processing Abdaheer, 2007-01-01

Digital Signal Processing Muhammad Khan, Syed K. Hasnain, Mohsin Jamil, 2022-09-01 The subject of Digital Signal Processing DSP is enormously complex involving many concepts probabilities and signal processing that are woven together in an intricate manner To cope with this scope and complexity many DSP texts are often organized around the numerical examples of a communication system With such organization readers can see through the complexity of DSP they learn about the distinct concepts and protocols in one part of the communication system while seeing the big picture of how all parts fit together From a pedagogical perspective our personal experience has been that such approach indeed works well Based on the authors extensive experience in teaching and research Digital Signal Processing a breadth first approach is written with the reader in mind The book is intended for a course on digital signal processing for seniors and undergraduate students The subject has high popularity in the field of electrical and computer engineering and the authors consider all the needs and tools used in analysis and design of discrete time systems for signal processing Key features of the book include The extensive use of MATLAB based examples to illustrate how to solve signal processing problems The textbook includes a wealth of problems with solutions Worked out examples have been included to explain new and difficult concepts which help to expose the reader to real life signal processing problems The inclusion of FIR and IIR filter design further enrich the contents

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Digital Signal Processing Using MATLAB & Wavelets Michael Weeks, 2011 Although Digital Signal Processing DSP has long been considered an electrical engineering topic recent developments have also generated significant interest from the computer science community DSP applications in the consumer market such as bioinformatics the MP3 audio format and MPEG based cable satellite television have fueled a desire to understand this technology outside of hardware circles Designed for upper division engineering and computer science students as well as practicing engineers and scientists Digital Signal Processing Using MATLAB Wavelets Second Edition emphasizes the practical applications of signal processing Over 100 MATLAB examples and wavelet techniques provide the latest applications of DSP including image processing games

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Digital Signal Processing N. B. Jones, J. D. McK. Watson, 1990 This volume presents the fundamentals of data signal processing ranging from data conversion to z transforms and spectral analysis In addition to presenting basic theory and describing the devices the material is complemented by real examples in specific case studies

Signal Processing, Telecommunication and Embedded Systems: Automation and Sustainability Applications Vikrant Bhateja, Wendy Flores-Fuentes, Anagha Bhattacharya, P. Satish Rama Chowdary, 2025-11-01 The book discusses the latest developments and outlines future trends in the fields of microelectronics electromagnetics and telecommunication It contains original research works presented at the International Conference on Microelectronics Electromagnetics and Telecommunication ICMEET 2024 organized by Department of Electronics and Communication Engineering National Institute of Technology Mizoram India during 19-20 December 2024 The book is divided into four volumes and it covers papers written by scientists research scholars and practitioners from leading universities engineering colleges and R D institutes from all over the world and shares the latest breakthroughs in and promising solutions to the most important issues facing today's society

Real-time Digital Signal Processing for Software-defined Optical Transmitters and Receivers Schmogrow, Rene Marcel, 2014-11-21 A software defined optical Tx is designed and demonstrated generating signals with various formats and pulse shapes in real time Special pulse shapes such as OFDM or Nyquist signaling were utilized resulting in a highly efficient usage of the available fiber channel bandwidth This was achieved by parallel data processing with high end FPGAs Furthermore highly efficient Rx algorithms for carrier and timing recovery as well as for polarization demultiplexing were developed and investigated

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Proceedings of the International Conference on Transformations in Engineering Education R. Natarajan, 2014-10-22 This book comprises the proceedings of the International Conference on Transformations in Engineering Education conducted jointly by BVB College of Engineering Technology Hubli India and Indo US Collaboration for Engineering Education IUCEE This event is done in collaboration with International Federation of Engineering Education Societies IFEES American Society for Engineering Education ASEE and Global Engineering Deans Council GEDC The conference is about showcasing the transformational practices in Engineering Education space

Digital Signal Processing with Examples in MATLAB® Samuel D. Stearns, Donald R. Hush, 2016-04-19 Based on fundamental principles from mathematics linear systems and signal analysis digital signal processing DSP algorithms are useful for extracting information from signals collected all around us Combined with today s powerful computing capabilities they can be used in a wide range of application areas including engineering communicati

Applications of Digital Signal Processing to Audio and Acoustics Mark Kahrs, Karlheinz Brandenburg, 2005-12-11 Karlheinz Brandenburg and Mark Kahrs With the advent of multimedia digital signal processing DSP of sound has emerged from the shadow of bandwidth limited speech processing Today the main applications of audio DSP are high quality audio coding and the digital generation and manipulation of music signals They share common research topics including perceptual measurement techniques and analysis synthesis methods Smaller but nonetheless very important topics are hearing aids using signal processing technology and hardware architectures for digital signal processing of audio In all these areas the last decade has seen a significant amount of application oriented research The topics covered here coincide with the topics covered in the biannual work shop on Applications of Signal Processing to Audio and Acoustics This event is sponsored by the IEEE Signal Processing Society Technical Committee on Audio and Electroacoustics and takes place at Mohonk Mountain House in New

Paltz New York A short overview of each chapter will illustrate the wide variety of technical material presented in the chapters of this book John Beerends Perceptual Measurement Techniques The advent of perceptual measurement techniques is a byproduct of the advent of digital coding for both speech and high quality audio signals Traditional measurement schemes are bad estimates for the subjective quality after digital coding decoding Listening tests are subject to statistical uncertainties and the basic question of repeatability in a different environment **An Irresistible First Love** Harish Kumaraswamy, 2019-06-10 First love is unique because it is the most innocent and pure form of love No matter how hard you try you will never stop missing your first love Cupid's arrow struck me through when I first laid my eyes upon her But I was not bold enough to strike a conversation with her even though she sits across my bench Cupid being a sweet angel etched out a digital platform Facebook for me to overcome my shyness Are you curious to know how a friend request to my first love brought us together in life An Irresistible First Love tells you a story that everyone can relate to *Software Quality Management VI* Chris Hawkins, Margaret Ross, Geoff Staples, 2012-12-06 The Quality Special Interest Group of the British Computer Society presents the edited proceedings of their sixth International Conference on Software Quality Management SQM 98 held in April 1998 in Amsterdam The objective of this series of annual conferences is to promote international co-operation among those concerned with software quality and process improvement by creating a greater understanding of software quality issues and by sharing current research and industrial experience The papers cover a broad spectrum of practical experience and research The topic areas include process improvement maintaining a quality management system quality metrics human factors project management issues software tools and approaches to systems development The organisers would like to thank Origin for their sponsorship of the proceedings The editors are indebted to the members of the International Advisory Committee for their support and for refereeing the abstracts and the final papers as well as to the authors who have contributed to the success of this conference Orthogonal Polynomials Paul Nevai, 2012-12-06 This volume contains the Proceedings of the NATO Advanced Study Institute on Orthogonal Polynomials and Their Applications held at The Ohio State University in Columbus Ohio U S A between May 22 1989 and June 3 1989 The Advanced Study Institute primarily concentrated on those aspects of the theory and practice of orthogonal polynomials which surfaced in the past decade when the theory of orthogonal polynomials started to experience an unparalleled growth This progress started with Richard Askey's Regional Conference Lectures on Orthogonal Polynomials and Special Functions in 1975 and subsequent discoveries led to a substantial revaluation of one's perceptions as to the nature of orthogonal polynomials and their applicability The recent popularity of orthogonal polynomials is only partially due to Louis de Branges's solution of the Bieberbach conjecture which uses an inequality of Askey and Gasper on Jacobi polynomials The main reason lies in their wide applicability in areas such as Padé approximations continued fractions Tauberian theorems numerical analysis probability theory mathematical statistics scattering theory nuclear physics solid state physics digital signal processing electrical

engineering theoretical chemistry and so forth This was emphasized and convincingly demonstrated during the presentations by both the principal speakers and the invited special lecturers The main subjects of our Advanced Study Institute included complex orthogonal polynomials signal processing the recursion method combinatorial interpretations of orthogonal polynomials computational problems potential theory Pade approximations Julia sets special functions quantum groups weighted approximations orthogonal polynomials associated with rootsystems matrix orthogonal polynomials operator theory and group representations *Readings in Speech Recognition* Alexander Waibel, Kai-Fu Lee, 1990-12-25 After more than two decades of research activity speech recognition has begun to live up to its promise as a practical technology and interest in the field is growing dramatically *Readings in Speech Recognition* provides a collection of seminal papers that have influenced or redirected the field and that illustrate the central insights that have emerged over the years The editors provide an introduction to the field its concerns and research problems Subsequent chapters are devoted to the main schools of thought and design philosophies that have motivated different approaches to speech recognition system design Each chapter includes an introduction to the papers that highlights the major insights or needs that have motivated an approach to a problem and describes the commonalities and differences of that approach to others in the book **New Perspectives on**

Approximation and Sampling Theory Ahmed I. Zayed, Gerhard Schmeisser, 2014-11-03 Paul Butzer who is considered the academic father and grandfather of many prominent mathematicians has established one of the best schools in approximation and sampling theory in the world He is one of the leading figures in approximation sampling theory and harmonic analysis Although on April 15 2013 Paul Butzer turned 85 years old remarkably he is still an active research mathematician In celebration of Paul Butzer's 85th birthday *New Perspectives on Approximation and Sampling Theory* is a collection of invited chapters on approximation sampling and harmonic analysis written by students friends colleagues and prominent active mathematicians Topics covered include approximation methods using wavelets multi scale analysis frames and special functions *New Perspectives on Approximation and Sampling Theory* requires basic knowledge of mathematical analysis but efforts were made to keep the exposition clear and the chapters self contained This volume will appeal to researchers and graduate students in mathematics applied mathematics and engineering in particular engineers working in signal and image processing 20000 MCQ - General Studies Previous Paper Based Question Bank for UPSC & State PSC Exams Mocktime Publication, 20000 MCQ General Studies Previous Paper Based Question Bank for UPSC State PSC Exams

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Table of Contents Digital Signal Processing Question Paper

1. Understanding the eBook Digital Signal Processing Question Paper
 - The Rise of Digital Reading Digital Signal Processing Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Digital Signal Processing Question Paper
 - 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 Signal Processing Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Digital Signal Processing Question Paper
 - Personalized Recommendations
 - Digital Signal Processing Question Paper User Reviews and Ratings
 - Digital Signal Processing Question Paper and Bestseller Lists

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