# Question Paper Code: 51409

# B.E./B. Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

#### Fifth Semester

Electrical and Electronics Engineering

EC 2361/EC 2314/EC 65/10144 EC 502/10133 EE 502--

# DIGITAL SIGNAL PROCESSING

(Common to Sixth Semester Electronics and Instrumentation Engineering and Instrumentation and Control Engineering)

(Regulation 2008/2010)

(Also common to PTEC 2361 - Digital Signal Processing for B.E. (Part-Time) Fifth Semester Electronics and Instrumentation Engineering - Regulation 2009)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PARTA-(
$$10 \times 2 = 20 \text{ marks}$$
)

1. Consider the analog signal  $x(t) = 3 \cos 50 \pi t + 10 \sin 300 \pi t$ .

- cos 100  $\pi t$ . What is the Nyquist rate for this signal?

Ans: 
$$x(t) = 3 \cos 50 \pi t + 10 \sin 300 \pi t - \cos 100 \pi t$$

$$2\pi F_1 = 50\pi$$
;  $F_1 = 25 Hz$ 

$$2\pi F_2 = 300\pi$$
;  $F_2 = 150 Hz$ 

$$2\pi F_3 = 100\pi$$
;  $F_3 = 50 Hz$ .

The maximum frequency is 150 Hz.

... Nyquist rate = 
$$2F_{\text{max}} = 2 \times 150 = 300 \text{ Hz}$$
.

2. State Shannon's sampling theorem.

Ans:

[Refer: April/May '2011, Question No. 1].

3. What is meant by Region of Convergence?
Ans:

[Refer: April/May '2011, Question No. 3].

# **Digital Signal Processing Solved Question Paper**

Jianjun Gao

# **Digital Signal Processing Solved Question Paper:**

**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 600 Practical Interview Questions for Digital Signal Processing Engineers: Analyze and Process Signals Efficiently CloudRoar Consulting Computer Science and Information Technology Solved Papers GATE 2022 Nitesh Services, 2025-08-15 Jain, 2021-06-21 1 The book is prepared for the preparation for the GATE entrance 2 The practice Package deals with Computer Science 1 marks and 2 marks 8 This book uses well detailed and authentic answers Get the complete assistance with GATE Chapterwise Solved Paper Series that has been developed for aspirants who are going to appear for the upcoming GATE Entrances The Book Chapterwise Previous Years Solved Papers 2021 2000 GATE Computer Science Information Technology has been prepared under the great observation that help aspirants in cracking the GATE Exams As the name of the book suggests it covers detailed solutions of every question in a Chapterwise manner Each chapter provides a detailed analysis of previous years exam pattern Chapterwise Solutions are given Engineering Mathematics and General Aptitude 3 Mock tests are given for Self practice To get well versed with the exam pattern Level of questions asked conceptual clarity and greater focus on the preparation This book proves to be a must have resource in the solving and practicing previous years GATE Papers TABLE OF CONTENT Solved Paper 2021 2012 Engineering Mathematics Computer Architecture Organization Programming Data Structure Algorithm Theory of Computation Compiler Design Operating System Database Digital Logic Software Engineering Computer Networks Web Technologies General Aptitude Crack Paper 1 3 Digital Signal Processing S.P. Eugene Xavier, 2003 A lot of Effort has been made to find simple ways to provied the theory of digital

Signal Processing Yhe Background for reading the book consists of the usual principles involved in handling signals through systems There are over 200 solved examples Review questions tutorials problems with answers to select problems University Model Ouestion Papers ect The Digital Signal Processing Handbook VIJAY MADISETTI, 1997-12-29 The field of digital signal processing DSP has spurred developments from basic theory of discrete time signals and processing tools to diverse applications in telecommunications speech and acoustics radar and video This volume provides an accessible reference offering theoretical and practical information to the audience of DSP users This immense compilation outlines both introductory and specialized aspects of information bearing signals in digital form creating a resource relevant to the expanding needs of the engineering community It also explores the use of computers and special purpose digital hardware in extracting information or transforming signals in advantageous ways Impacted areas presented include Telecommunications Computer engineering Acoustics Seismic data analysis DSP software and hardware Image and video processing Remote sensing Multimedia applications Medical technology Radar and sonar applications This authoritative collaboration written by the foremost researchers and practitioners in their fields comprehensively presents the range of DSP from theory to application from algorithms to hardware 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 **Electronic Signals and Systems** Muhammad Nasir Khan, Syed K. Hasnain, Mohsin Jamil, Ali Imran, 2022-09-01 The subject of Signals and Systems is enormously complex involving many concepts such as signals mathematics and filter design that are woven together in an intricate manner To cope with this scope and complexity many Signals and Systems texts are often organized around the numerical examples of a system With such organization students can see through the complexity of Signals and Systems they can 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 of teaching and research the book is written with such a reader in mind The Book is intended for a course on signals systems at the senior undergraduate level and above The authors consider all the requirements and tools used in analysis and design of discrete time systems for filter design and signal processing Key features of the International Edition The extensive use of MATLAB based examples to illustrate how to solve the signals systems problems The textbook includes a wealth of problems with solutions Worked out examples have been included to explain new and difficult concepts and to expose the reader to real life signal processing problems The inclusion of FIR and

IIR filter design further enriches the contents of the book Numerical Linear Algebra, Digital Signal Processing and Parallel Algorithms Gene H. Golub, Paul Van Dooren, 2012-12-06 Numerical linear algebra digital signal processing and parallel algorithms are three disciplines with a great deal of activity in the last few years. The interaction between them has been growing to a level that merits an Advanced Study Institute dedicated to the three areas together This volume gives an account of the main results in this interdisciplinary field The following topics emerged as major themes of the meeting Singular value and eigenvalue decompositions including applications Toeplitz matrices including special algorithms and architectures Recursive least squares in linear algebra digital signal processing and control Updating and downdating techniques in linear algebra and signal processing Stability and sensitivity analysis of special recursive least squares problems Special architectures for linear algebra and signal processing This book contains tutorials on these topics given by leading scientists in each of the three areas A consider able number of new research results are presented in contributed papers The tutorials and papers will be of value to anyone interested in the three disciplines FCC Record United States. Federal Communications Commission, 2000 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

Symmetry in Applied Mathematics Lorentz Jäntschi, Sorana D. Bolboacă, 2021-01-26 Applied mathematics and symmetry work together as a powerful tool for problem reduction and solving We are communicating applications in probability theory and statistics A Test Detecting the Outliers for Continuous Distributions Based on the Cumulative Distribution Function of the Data Being Tested The Asymmetric Alpha Power Skew t Distribution fractals geometry and alike Khovanov Homology of Three Strand Braid Links Volume Preserving Maps Between p Balls Generation of Julia and Mandelbrot Sets via Fixed Points supersymmetry physics nanostructures chemistry taxonomy biology and alike A Continuous Coordinate System for the Plane by Triangular Symmetry One Dimensional Optimal System for 2D Rotating Ideal Gas Minimal Energy Configurations of Finite Molecular Arrays Noether Like Operators and First Integrals for Generalized Systems of Lane Emden Equations algorithms programs and software analysis Algorithm for Neutrosophic Soft Sets in Stochastic Multi Criteria Group Decision Making

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Scientific and Technical Aerospace Reports, 1995-05

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Research in Progress ,1964

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 percept tual 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 sta tistical uncertainties and the basic question of repeatability in a different environment Circuits. Systems and Signal Processing Suhash Chandra Dutta Roy, 2018-03-24 This book is a collection of tutorial like chapters on all core topics of signals and systems and the electronic circuits All the topics dealt with in the book are parts of the core syllabi of standard programs in Electrical Engineering Electrical and Computer Engineering and Electronics and Telecommunication Engineering domains This book is intended to serve as a secondary reader or supplementary text for core courses in the area

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