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 πt . 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

Abdaheer

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 **Computer Science and Information Technology Solved Papers GATE 2022** Nitesh 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 Question 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 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 Based on Prospect Theory On a Reduced Cost Higher Order Traub Steffensen Like Method for Nonlinear Systems On a Class of Optimal Fourth Order Multiple Root Solvers

without Using Derivatives to specific subjects Facility Location Problem Approach for Distributed Drones Parametric Jensen Shannon Statistical Complexity and Its Applications on Full Scale Compartment Fire Data Diverse topics are thus combined to map out the mathematical core of practical problems **Plant Intelligent Automation and Digital Transformation** Swapan Basu, 2022-10-28 Plant Intelligent Automation and Digital Transformation Process and Factory Automation is an expansive four volume collection reviewing every major aspect of the intelligent automation and digital transformation of power process and manufacturing plants from the specific control and automation systems pertinent to various power process plants through manufacturing and factory automation systems. This volume introduces the foundations of automation control theory networking practices and communication for power process and manufacturing plants considered as integrated digital systems In addition it discusses Distributed control System DCS for Closed loop controls system CLCS and PLC based systems for Open loop control systems OLCS and factory automation This book provides in depth guidance on functional and design details pertinent to each of the control types referenced above along with the installation and commissioning of control systems Introduces the foundations of control systems networking and industrial data communications for power process and manufacturing plant automation Reviews core functions design details and optimized configurations of plant digital control systems Addresses advanced process control for digital control systems inclusive of software implementations Provides guidance for installation commissioning of control systems in working plants

Advances in Computer Science and Information Engineering David Jin, Sally Lin, 2012-05-11 CSIE2012 is an integrated conference concentrating its focus on Computer Science and Information Engineering In the proceeding you can learn much more knowledge about Computer Science and Information Engineering of researchers from all around the world The main role of the proceeding is to be used as an exchange pillar for researchers who are working in the mentioned fields In order to meet the high quality of Springer AISC series the organization committee has made their efforts to do the following things Firstly poor quality paper has been refused after reviewing course by anonymous referee experts Secondly periodically review meetings have been held around the reviewers about five times for exchanging reviewing suggestions Finally the conference organizers had several preliminary sessions before the conference Through efforts of different people and departments the conference will be successful and fruitful Scientific and Technical Aerospace Reports ,1995-05

Software Engineering Sajan Mathew, 2007 This book is a comprehensive step by step guide to software engineering This book provides an introduction to software engineering for students in undergraduate and post graduate programs in computers World Congress on Medical Physics and Biomedical Engineering 2018 Lenka Lhotska, Lucie Sukupova, Igor Lacković, Geoffrey S. Ibbott, 2018-05-29 This book vol 1 presents the proceedings of the IUPESM World Congress on Biomedical Engineering and Medical Physics a triennially organized joint meeting of medical physicists biomedical engineers and adjoining health care professionals Besides the purely scientific and technological topics the 2018 Congress will also

focus on other aspects of professional involvement in health care such as education and training accreditation and certification health technology assessment and patient safety The IUPESM meeting is an important forum for medical physicists and biomedical engineers in medicine and healthcare learn and share knowledge and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field div Chapter Evaluation of the Impact of an International Master of Advanced Studies in Medical Physics is available open access under a Creative Commons Attribution 3 0 IGO Licence via link springer com

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 percep 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 Machine Learning and Knowledge Discovery in Databases Annalisa Appice, Pedro Pereira Rodrigues, Vítor Santos Costa, Carlos Soares, João Gama, Alípio Jorge, 2015-08-28 The three volume set LNAI 9284 9285 and 9286 constitutes the refereed proceedings of the European Conference on Machine Learning and Knowledge Discovery in Databases ECML PKDD 2015 held in Porto Portugal in September 2015 The 131 papers presented in these proceedings were carefully reviewed and selected from a total of 483 submissions These include 89 research papers 11 industrial papers 14 nectar papers and 17 demo papers They were organized in topical sections named classification regression and supervised learning clustering and unsupervised learning data preprocessing data streams and online learning deep learning distance and metric learning large scale learning and big data matrix and tensor analysis pattern and sequence mining preference learning and label ranking probabilistic statistical and graphical approaches rich data and social and graphs Part III is structured in industrial track nectar track and demo track Multimedia Technology IV Aly A. Farag, Yang Jian, Feng Jiao, 2015-04-07 Multimedia

Technology IV is a collection of papers from the 4th International Conference on Multimedia Technology ICMT 2015 Sydney Australia 28 29 March 2015 The book discusses a wide range of topics including Image and signal processing Video and audio processing Multimedia data communication and transmission and Multimedia tools Presenting recent advances and new techniques and applications in image and signal processing video and audio processing multimedia data communication and transmission and multimedia tools Multimedia Technology IV will be of interest to academics and professionals involved in the field of multimedia technology

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