

Final Exam for Electrical Signal Processing (EE-3300)

Time: 40 min (10:15-10:55) + Extension: 10 min (10:55-11:05)

1. (20 points) Let $x[n]$ be a real continuous signal.
 - (a) (5 points) Determine the discrete-time Fourier transform (DTFT) $X(e^{j\omega})$ of $x[n]$, if the signal $x[n]$ is given by $x[n] = \cos(\frac{\pi}{4}n)$.
 - (b) (5 points) Find the magnitude $|X(e^{j\omega})|$.
 - (c) (5 points) Find the phase $\angle X(e^{j\omega})$.
2. (20 points) A discrete-time system H_1 is specified by the following input-output difference equation

$$y[n] = 0.5x[n] - 0.2x[n-1] + 0.7y[n-1]$$
 - (a) (5 points) Find the frequency response $H_1(e^{j\omega})$.
 - (b) (15 points) Determine which type of filter H_1 is, using the pass, stopband, and transition filter, and explain why.
3. (20 points) A discrete-time system H_2 is specified by the following input-output difference equation

$$y[n] = 0.5x[n] - 0.2x[n-1] + 0.7y[n-1] + 0.2y[n-2]$$
 - (a) (5 points) Find the frequency response $H_2(e^{j\omega})$.
 - (b) (15 points) Determine which type of filter H_2 is, using the pass, stopband, and transition filter, and explain why.
4. (20 points) A causal filter with time-invariant (LTI) system possesses the output spectrum $Y(e^{j\omega}) = \frac{1}{2} + j\omega$ and it is given that it is a system excited by the input spectrum $X(e^{j\omega}) = \frac{1}{2} - j\omega$ for $\omega \in [-\pi, \pi]$.
 - (a) (5 points) Determine the input-output difference equation of this LTI system.
 - (b) (15 points) Determine the impulse response of this LTI system.
5. (20 points)
 - (a) (5 points) Describe the operation of the Nyquist Filter. Draw equation (NFT) and name NFT, and name the signal NRC signal P_1 .
 - (b) (10 points) Let $x[n]$ be $\frac{1}{2} + j\omega$ and $y[n]$ be $\frac{1}{2} - j\omega$ for $\omega \in [-\pi, \pi]$ and assume a discrete-time filter H is given, then determine the magnitude $|H(e^{j\omega})|$ and the phase $\angle H(e^{j\omega})$ of this filter for $\omega \in [-\pi, \pi]$.
 - (c) (5 points) Let $x[n]$ be $\frac{1}{2} + j\omega$ and $y[n]$ be $\frac{1}{2} - j\omega$ for $\omega \in [-\pi, \pi]$ and assume a discrete-time filter H is given, then determine the magnitude $|H(e^{j\omega})|$ and the phase $\angle H(e^{j\omega})$ of this filter for $\omega \in [-\pi, \pi]$.

Digital Signal Processing Final Exam Solutions

Karin Nielsen-Saines



Digital Signal Processing Final Exam Solutions:

Digital Signal Processing Thomas Holton, 2021-02-18 A comprehensive and mathematically accessible introduction to digital signal processing covering theory advanced topics and applications Digital Signal Processing Jonathan M Blackledge, 2006-03-01 This book forms the first part of a complete MSc course in an area that is fundamental to the continuing revolution in information technology and communication systems Massively exhaustive authoritative comprehensive and reinforced with software this is an introduction to modern methods in the developing field of Digital Signal Processing DSP The focus is on the design of algorithms and the processing of digital signals in areas of communications and control providing the reader with a comprehensive introduction to the underlying principles and mathematical models Provides an introduction to modern methods in the developing field of Digital Signal Processing DSP Focuses on the design of algorithms and the processing of digital signals in areas of communications and control Provides a comprehensive introduction to the underlying principles and mathematical models of Digital Signal Processing

Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy United States Air Force Academy, 2004 **Annual Catalogue** United States Air Force Academy, 1984 **United States Air Force Academy** United States Air Force Academy, **Digital Signal Processing** Winser Alexander, Cranos M Williams, 2016-11-14 Digital signal processing DSP has been applied to a very wide range of applications This includes voice processing image processing digital communications the transfer of data over the internet image and data compression etc Engineers who develop DSP applications today and in the future will need to address many implementation issues including mapping algorithms to computational structures computational efficiency power dissipation the effects of finite precision arithmetic throughput and hardware implementation It is not practical to cover all of these in a single text However this text emphasizes the practical implementation of DSP algorithms as well as the fundamental theories and analytical procedures that form the basis for modern DSP applications *Digital Signal Processing Principles Algorithms and System Design* provides an introduction to the principals of digital signal processing along with a balanced analytical and practical treatment of algorithms and applications for digital signal processing It is intended to serve as a suitable text for a one semester junior or senior level undergraduate course It is also intended for use in a following one semester first year graduate level course in digital signal processing It may also be used as a reference by professionals involved in the design of embedded computer systems application specific integrated circuits or special purpose computer systems for digital signal processing multimedia communications or image processing Covers fundamental theories and analytical procedures that form the basis of modern DSP Shows practical implementation of DSP in software and hardware Includes Matlab for design and implementation of signal processing algorithms and related discrete time systems Bridges the gap between reference texts and the knowledge needed to implement DSP applications in software or hardware **Fundamentals of Statistical Signal Processing**

Steven M. Kay, 2013 For those involved in the design and implementation of signal processing algorithms this book strikes a balance between highly theoretical expositions and the more practical treatments covering only those approaches necessary for obtaining an optimal estimator and analyzing its performance Author Steven M Kay discusses classical estimation followed by Bayesian estimation and illustrates the theory with numerous pedagogical and real world examples Cover volume 1

An Introduction to Digital Signal Processing Stanley Mneney, 2009-01-10 Mneney's text focuses on basic concepts of digital signal processing MATLAB simulation and implementation on selected DSP hardware

Understanding Digital Signal Processing with MATLAB® and Solutions Alexander D. Poularikas, 2017-11-13 The book discusses receiving signals that most electrical engineers detect and study The vast majority of signals could never be detected due to random additive signals known as noise that distorts them or completely overshadows them Such examples include an audio signal of the pilot communicating with the ground over the engine noise or a bioengineer listening for a fetus heartbeat over the mother's The text presents the methods for extracting the desired signals from the noise Each new development includes examples and exercises that use MATLAB to provide the answer in graphic forms for the reader's comprehension and understanding

Pass Ultrasound Physics Exam Study Guide Review Volume I PDF Edition Mansoor Khan MBBS, RDMS, RDCS, 2014-11-21 This Pass Ultrasound Physics Exam Study Guide Review Volume I is in easy to understand question and answer format with over 400 questions This study guide review is designed to help students and sonographers practice and prepare for the questions which appear on the ARDMS Sonography Principles and Instrumentation exam It is divided into two Volume I and Volume II The Volume I contains questions and answers from chapters such as Pulse Echo Instrumentation Ultrasound Transducers Sound Beam Bioeffects Intensity and Resolution The material is based on the ARDMS exam outline It explains the concepts in very simple and easy to understand way You can increase your chances to pass Ultrasound Physics and Instrumentation SPI exam by memorizing these questions and answers After studying this study guide review you will feel confident and will be able to answer most of the questions easily which appear on the ARDMS Sonographic Principles and Instrumentation Exam The Pass Ultrasound Physics Exam Study Guide Notes Volume I will be a great compliment to this study guide review and I highly recommend it if you are preparing to sit for ARDMS Sonographic Principles and Instrumentation exam

Computer, Intelligent Computing and Education Technology Hsiang-Chuan Liu, Wen-Pei Sung, Wenli Yao, 2014-03-26 This proceedings set contains selected Computer Information and Education Technology related papers from the 2014 International Conference on Computer Intelligent Computing and Education Technology CICET 2014 held March 27-28 2014 in Hong Kong The proceedings aims to provide a platform for researchers engineers and academics as well as industry

Fundamentals of Image, Audio, and Video Processing Using MATLAB® Ranjan Parekh, 2021-04-15 Fundamentals of Image Audio and Video Processing Using MATLAB introduces the concepts and principles of media processing and its applications in pattern recognition by adopting a hands on approach using program

implementations The book covers the tools and techniques for reading modifying and writing image audio and video files using the data analysis and visualization tool MATLAB Key Features Covers fundamental concepts of image audio and video processing Demonstrates the use of MATLAB on solving problems on media processing Discusses important features of Image Processing Toolbox Audio System Toolbox and Computer Vision Toolbox MATLAB codes are provided as answers to specific problems Illustrates the use of Simulink for audio and video processing Handles processing techniques in both the Spatio Temporal domain and Frequency domain This is a perfect companion for graduate and post graduate students studying courses on image processing speech and language processing signal processing video object detection and tracking and related multimedia technologies with a focus on practical implementations using programming constructs and skill developments It will also appeal to researchers in the field of pattern recognition computer vision and content based retrieval and for students of MATLAB courses dealing with media processing statistical analysis and data visualization Dr Ranjan Parekh PhD Engineering is Professor at the School of Education Technology Jadavpur University Calcutta India and is involved with teaching subjects related to Graphics and Multimedia at the post graduate level His research interest includes multimedia information processing pattern recognition and computer vision

'Fundamentals of Image, Audio, and Video Processing Using MATLAB®' and 'Fundamentals of Graphics Using MATLAB®' Ranjan Parekh,2022-02-28

This discounted two book set contains BOTH Fundamentals of Image Audio and Video Processing Using MATLAB introduces the concepts and principles of media processing and its applications in pattern recognition by adopting a hands on approach using program implementations The book covers the tools and techniques for reading modifying and writing image audio and video files using the data analysis and visualization tool MATLAB This is a perfect companion for graduate and post graduate students studying courses on image processing speech and language processing signal processing video object detection and tracking and related multimedia technologies with a focus on practical implementations using programming constructs and skill developments It will also appeal to researchers in the field of pattern recognition computer vision and content based retrieval and for students of MATLAB courses dealing with media processing statistical analysis and data visualization Fundamentals of Graphics Using MATLAB introduces fundamental concepts and principles of 2D and 3D graphics and is written for undergraduate and postgraduate students of computer science graphics multimedia and data science It demonstrates the use of MATLAB programming for solving problems related to graphics and discusses a variety of visualization tools to generate graphs and plots The book covers important concepts like transformation projection surface generation parametric representation curve fitting interpolation vector representation and texture mapping all of which can be used in a wide variety of educational and research fields Theoretical concepts are illustrated using a large number of practical examples and programming codes which can be used to visualize and verify the results *Smart Innovations in Engineering and Technology* Ryszard Klempous,Jan Nikodem,2019-11-28 This easy to understand book discusses applications

of current technologies and the foundations for their extension into emerging areas in the future It includes research presented at two conferences 5th International IBM Cloud Academy Conference 2017 held in Wroc aw Poland 5th Asia Pacific Conference on Computer Assisted and System Engineering 2017 held in Guilin China These conferences focused on system and application engineering including achievements in the interdisciplinary topics of cloud computing big data IoT and mobile communications Featuring 19 chapters the book has the potential to influence current and future research and applications combining the best attributes of computing mathematics artificial intelligence biometrics and software engineering to create a comprehensive research application domain *CCSP CSVPN Exam Cram 2 (Exam Cram 642-511)* David Minutella,2003 Your resource to passing the Cisco CCSP CSVPN Certification Exam Join the ranks of readers who have trusted Exam Cram 2 to their certification preparation needs TheCCSP CSVPN Exam Cram 2 Exam 642 511 is focused on what you need to know to pass the CCSP CSI exam The Exam Cram 2 Method of Study provides you with a concise method to learn the exam topics The book includes tips exam notes acronyms and memory joggers in order to help you pass the exam Included in the CCSP CSVPN Exam Cram 2 A tear out Cram Sheet for last minute test preparation Covers the current exam objectives for the 642 511 The PrepLogic Practice Tests test engine to simulate the testing environment and test your knowledge Trust in the series that has helped many others achieve certification success Exam Cram 2 **Signal** ,2004 **IEEE Circuits & Devices** ,1999 *Signal Processing for Radiation Detectors* Mohammad Nakhostin,2017-10-23 Presents the fundamental concepts of signal processing for all application areas of ionizing radiation This book provides a clear understanding of the principles of signal processing of radiation detectors It puts great emphasis on the characteristics of pulses from various types of detectors and offers a full overview on the basic concepts required to understand detector signal processing systems and pulse processing techniques Signal Processing for Radiation Detectors covers all of the important aspects of signal processing including energy spectroscopy timing measurements position sensing pulse shape discrimination and radiation intensity measurement The book encompasses a wide range of applications so that readers from different disciplines can benefit from all of the information In addition this resource Describes both analog and digital techniques of signal processing Presents a complete compilation of digital pulse processing algorithms Extrapolates content from more than 700 references covering classic papers as well as those of today Demonstrates concepts with more than 340 original illustrations Signal Processing for Radiation Detectors provides researchers engineers and graduate students working in disciplines such as nuclear physics and engineering environmental and biomedical engineering and medical physics and radiological science the knowledge to design their own systems optimize available systems or to set up new experiments **SURGE**. Colorado SURGE (State University Resources in Graduate Education),1983 **Books in Print** ,1994

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