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this book stems from a unique and a highly effective approach to introducing signal processing instrumentation diagnostics filtering control system integration and machine learning it presents the interactive industrial grade software testbed of mold oscillator that captures the distortion induced by beam resonance and uses this testbed as a virtual lab to generate input output data records that permit unravelling complex system behavior enhancing signal processing modeling and simulation background and testing controller designs all topics are presented in a visually rich and mathematically well supported but not analytically overburdened format by incorporating software testbed into homework and project assignments the narrative guides a reader in an easily followed step by step fashion towards finding the mold oscillator disturbance removal solution currently used in the actual steel production while covering the key signal processing control system integration and machine learning concepts the presentation is extensively class tested and refined though the six year usage of the book material in a required engineering course at the university of illinois at urbana champaign

this book stems from a unique and highly effective approach in introducing signal processing instrumentation diagnostics filtering control and system integration it presents the interactive industrial grade software testbed of mold oscillator that captures the mold motion distortion induced by coupling of the electro hydraulic actuator nonlinearity with the resonance of the mold oscillator beam assembly the testbed is then employed as a virtual lab to generate input output data records that permit unraveling and refining complex behavior of the actual production system through merging dynamics signal processing instrumentation and control into a coherent problem solving package the material is presented in a visually rich mathematically and graphically well supported but not analytically overburdened format by incorporating software testbed into homework and project assignments the book fully brings out the excitement of going through the adventure of exploring and solving a mold oscillator distortion problem while covering the key signal processing diagnostics instrumentation modeling control and system integration concepts the approach presented in this book has been supported by two education advancement awards from the college of engineering of the university of illinois at urbana champaign

digital signal processing a primer with matlab provides excellent coverage of discrete time signals and systems at the beginning of each chapter an abstract states the chapter objectives all principles are also presented in a lucid logical step by step

approach as much as possible the authors avoid wordiness and detail overload that could hide concepts and impede understanding in recognition of requirements by the accreditation board for engineering and technology abet on integrating computer tools the use of matlab is encouraged in a student friendly manner matlab is introduced in appendix c and applied gradually throughout the book each illustrative example is immediately followed by practice problems along with its answer students can follow the example step by step to solve the practice problems without flipping pages or looking at the end of the book for answers these practice problems test students comprehension and reinforce key concepts before moving onto the next section toward the end of each chapter the authors discuss some application aspects of the concepts covered in the chapter the material covered in the chapter is applied to at least one or two practical problems it helps students see how the concepts are used in real life situations also thoroughly worked examples are given liberally at the end of every section these examples give students a solid grasp of the solutions as well as the confidence to solve similar problems themselves some of the problems are solved in two or three ways to facilitate a deeper understanding and comparison of different approaches designed for a three hour semester course digital signal processing a primer with matlab is intended as a textbook for a senior level undergraduate student in electrical and computer engineering the prerequisites for a course based on this book are knowledge of standard mathematics including calculus and complex numbers

this book provides comprehensive graduate level treatment of analog and digital signal analysis suitable for course use and self guided learning this expert text guides the reader from the basics of signal theory through a range of application tools for use in acoustic analysis geophysics and data compression each concept is introduced and explained step by step and the necessary mathematical formulae are integrated in an accessible and intuitive way the first part of the book explores how analog systems and signals form the basics of signal analysis this section covers fourier series and integral transforms of analog signals laplace and hilbert transforms the main analog filter classes and signal modulations part ii covers digital signals demonstrating their key advantages it presents z and fourier transforms digital filtering inverse filters deconvolution and parametric modeling for deterministic signals wavelet decomposition and reconstruction of non stationary signals are also discussed the third part of the book is devoted to random signals including spectral estimation parametric modeling and tikhonov regularization it covers statistics of one and two random variables and the principles and methods of spectral analysis estimation of signal properties is discussed in the context of ergodicity conditions

and parameter estimations including the use of wiener and kalman filters two appendices cover the basics of integration in the complex plane and linear algebra a third appendix presents a basic matlab toolkit for computer signal analysis this expert text provides both a solid theoretical understanding and tools for real world applications

unsupervised signal processing channel equalization and source separation provides a unified systematic and synthetic presentation of the theory of unsupervised signal processing always maintaining the focus on a signal processing oriented approach this book describes how the subject has evolved and assumed a wider scope that covers several topics from well established blind equalization and source separation methods to novel approaches based on machine learning and bio inspired algorithms from the foundations of statistical and adaptive signal processing the authors explore and elaborate on emerging tools such as machine learning based solutions and bio inspired methods with a fresh take on this exciting area of study this book provides a solid background on the statistical characterization of signals and systems and on linear filtering theory emphasizes the link between supervised and unsupervised processing from the perspective of linear prediction and constrained filtering theory addresses key issues concerning equilibrium solutions and equivalence relationships in the context of unsupervised equalization criteria provides a systematic presentation of source separation and independent component analysis discusses some instigating connections between the filtering problem and computational intelligence approaches building on more than a decade of the authors work at dspcom laboratory this book applies a fresh conceptual treatment and mathematical formalism to important existing topics the result is perhaps the first unified presentation of unsupervised signal processing techniques one that addresses areas including digital filters adaptive methods and statistical signal processing with its remarkable synthesis of the field this book provides a new vision to stimulate progress and contribute to the advent of more useful efficient and friendly intelligent systems

due to the rapid development of technologies digital information playing a key role in our daily life in the past signal processing appeared in various concepts in more traditional courses where the analog and discrete components were used to achieve the various objectives however in the 21th century with the rapid growth of computing power in terms of speed and memory capacity and the intervention of artificial intelligent machine deep learning algorithms iot cloud computing and automation introduced a tremendous growth in signal processing applications

therefore digital signal processing has become such a critical component in contemporary science and technology that many tasks would not be attempted without it it is a truly interdisciplinary subject that draws from synergistic developments involving many disciplines the developers should be able to solve problems with an innovation creativity and active initiators of novel ideas however the learning and teaching has been changed from conventional and tradition education to outcome based education therefore this book prepared on a problem based approach and outcome based education strategies where the problems incorporate most of the basic principles and proceeds towards implementation of more complex algorithms students required to formulate in a way to achieve a well defined goals under the guidance of their instructor this book follows a holistic approach and presents discrete time processing as a seamless continuation of continuous time signals and systems beginning with a review of continuous time signals and systems frequency response and filtering the synergistic combination of continuous time and discrete time perspectives leads to a deeper appreciation and understanding of dsp concepts and practices

this textbook provides a detailed study of continuous and discrete time signals and systems at a theoretical as well as a practical level for undergraduate as well as graduate students the book follows a didactic approach allowing the students to acquire a solid knowledge and skill required for the study of more advanced subjects such as telecommunications as well as automatic control systems the detailed presentation of the theory in this book is accompanied by many examples as well as hundreds of solved and unsolved exercises that help the reader to gain immediately a deep understanding of the presented material and the way it is used in practice because of the mathematical complexity associated with the presented material this book requires a good knowledge of basic concepts from linear algebra and mathematical analysis such as for example elements of matrix theory the concepts of the derivative and the integral as well as the knowledge of the main aspects associated with differential and difference equations for the continuous and the discrete time domain respectively special emphasis should also be given to well known techniques that allow the estimation of the inverse transforms such as polynomial division partial fractions expansion as well as the methods of residues for the estimation of integrals of complex functions

this text presents a definitive treatise on discrete time signal processing it provides thorough treatment of the fundamental theorems and properties of discrete time linear systems filtering sampling and discrete time fourier analysis

a reference work on all aspects and applications of digital signal processing which covers the design of hardware and software systems and the principles and applications of video processing communications sonar and radar

the first edition of this ground breaking and widely used book introduced a comprehensive textbook on radar systems analysis and design providing hands on experience facilitated by its companion matlab software the book very quickly turned into a bestseller based on feedback provided by several users and drawing from the author s own teaching experience the 4th edition adopts a new approach the presentation in this edition takes the reader on a scientific journey whose major landmarks comprise the different radar sub systems and components along the way the different relevant radar subsystems are analyzed and discussed in great level of detail understanding the radar signal types and their associated radar signal processing techniques are key to understating how radar systems function each chapter provides the necessary mathematical and analytical coverage required for a sound understanding of radar theory additionally dedicated matlab functions programs enhance the understanding of the theory and establish a means to perform radar system analysis and design trades the software provides users with numerous varieties of graphical outputs additionally a complete set of matlab code that generates all plot and graphs found within the pages of this textbook are also available all companion matlab code can be downloaded from the book s web page the 4th edition takes advantage of the new features offered by matlab 2021 release brings the text to a current state of the art incorporates much of the feedback received from users using this book as a text and from practicing engineers accordingly several chapters have been rewritten presents unique topics not found in other books maintains a comprehensive and exhaustive presentation restructures the presentation to be more convenient for course use provides a post course reference for engineering students as they enter the field offers a companion solutions manual for instructors the 4th edition will serve as a valuable tool to students and radar engineers by helping them better analyze and understand the many topics of radar systems this book is written primarily as a graduate level textbook although parts of it can be used as a senior level course a companion solutions manual has been developed for use by instructors

more than half of the 600 problems in the second edition of signals systems are new while the remainder are the same as in the first edition this manual contains solutions to the new problems as well as updated solutions for the problems from the first edition pref

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