

1. Record Nr.	UNINA9910140977003321
Autore	Leis John <1966->
Titolo	Digital signal processing using MATLAB for students and researchers / / John W. Leis
Pubbl/distr/stampa	Hoboken, New Jersey, : Wiley, [2011]
ISBN	9786613126368 9781283126366 1283126362 9781118033807 1118033809 9781118033623 1118033620 9781118033609 1118033604
Edizione	[1st ed.]
Descrizione fisica	1 online resource (382 pages)
Classificazione	SCI067000
Disciplina	621.382/2 621.3822
Soggetti	Signal processing - Digital techniques Signal processing - Mathematics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	DIGITAL SIGNAL PROCESSING USING MATLAB FOR STUDENTS AND RESEARCHERS; CONTENTS; PREFACE; CHAPTER 1: WHAT IS SIGNAL PROCESSING?; 1.1 CHAPTER OBJECTIVES; 1.2 INTRODUCTION; 1.3 BOOK OBJECTIVES; 1.4 DSP AND ITS APPLICATIONS; 1.5 APPLICATION CASE STUDIES USING DSP; 1.6 OVERVIEW OF LEARNING OBJECTIVES; 1.7 CONVENTIONS USED IN THIS BOOK; 1.8 CHAPTER SUMMARY; CHAPTER 2: MATLAB FOR SIGNAL PROCESSING; 2.1 CHAPTER OBJECTIVES; 2.2 INTRODUCTION; 2.3 WHAT IS MATLAB?; 2.4 GETTING STARTED; 2.5 EVERYTHING IS A MATRIX; 2.6 INTERACTIVE USE; 2.7 TESTING AND LOOPING; 2.8 FUNCTIONS AND VARIABLES 2.9 PLOTTING AND GRAPHING 2.10 LOADING AND SAVING DATA; 2.11 MULTIDIMENSIONAL ARRAYS; 2.12 BITWISE OPERATORS; 2.13

VECTORIZING CODE; 2.14 USING MATLAB FOR PROCESSING SIGNALS; 2.15 CHAPTER SUMMARY; CHAPTER 3: SAMPLED SIGNALS AND DIGITAL PROCESSING; 3.1 CHAPTER OBJECTIVES; 3.2 INTRODUCTION; 3.3 PROCESSING SIGNALS USING COMPUTER ALGORITHMS; 3.4 DIGITAL REPRESENTATION OF NUMBERS; 3.5 SAMPLING; 3.6 QUANTIZATION; 3.7 IMAGE DISPLAY; 3.8 ALIASING; 3.9 RECONSTRUCTION; 3.10 BLOCK DIAGRAMS AND DIFFERENCE EQUATIONS; 3.11 LINEARITY, SUPERPOSITION, AND TIME INVARIANCE
3.12 PRACTICAL ISSUES AND COMPUTATIONAL EFFICIENCY
3.13 CHAPTER SUMMARY; CHAPTER 4: RANDOM SIGNALS; 4.1 CHAPTER OBJECTIVES; 4.2 INTRODUCTION; 4.3 RANDOM AND DETERMINISTIC SIGNALS; 4.4 RANDOM NUMBER GENERATION; 4.5 STATISTICAL PARAMETERS; 4.6 PROBABILITY FUNCTIONS; 4.7 COMMON DISTRIBUTIONS; 4.8 CONTINUOUS AND DISCRETE VARIABLES; 4.9 SIGNAL CHARACTERIZATION; 4.10 HISTOGRAM OPERATORS; 4.11 MEDIAN FILTERS; 4.12 CHAPTER SUMMARY; CHAPTER 5: REPRESENTING SIGNALS AND SYSTEMS; 5.1 CHAPTER OBJECTIVES; 5.2 INTRODUCTION; 5.3 DISCRETE-TIME WAVEFORM GENERATION; 5.4 THE z TRANSFORM
5.5 POLYNOMIAL APPROACH
The previous section showed how to iterate a difference equation in order to determine the output sequence. It is particularly important to understand the relationship between difference equations and their transforms. The z transform of a linear system gives us the key to combining systems together to form more complex systems, since the z transforms in combined blocks are able to be multiplied or added together as necessary. We now give another insight into this approach.
S...5.6 POLES, ZEROS, AND STABILITY; 5.7 TRANSFER FUNCTIONS AND FREQUENCY RESPONSE
5.8 VECTOR INTERPRETATION OF FREQUENCY RESPONSE
5.9 CONVOLUTION; 5.10 CHAPTER SUMMARY; CHAPTER 6: TEMPORAL AND SPATIAL SIGNAL PROCESSING; 6.1 CHAPTER OBJECTIVES; 6.2 INTRODUCTION; 6.3 CORRELATION; 6.4 LINEAR PREDICTION; 6.5 NOISE ESTIMATION AND OPTIMAL FILTERING; 6.6 TOMOGRAPHY; 6.7 CHAPTER SUMMARY; CHAPTER 7: FREQUENCY ANALYSIS OF SIGNALS; 7.1 CHAPTER OBJECTIVES; 7.2 INTRODUCTION; 7.3 FOURIER SERIES; 7.4 HOW DO THE FOURIER SERIES COEFFICIENT EQUATIONS COME ABOUT?; 7.5 PHASE-SHIFTED WAVEFORMS; 7.6 THE FOURIER TRANSFORM; 7.7 ALIASING IN DISCRETE-TIME SAMPLING
7.8 THE FFT AS A SAMPLE INTERPOLATOR

Sommario/riassunto

"This book uses an active learning approach to the topic of digital signal processing (DSP). DSP is a fundamental technology with wide ranging applications as, for example, digital downloads of movies, mobile and broadband communications, digital television, and many other areas. In this book the subject is taught using a "hands-on" experimental approach with MATLAB examples throughout the text to illustrate the mathematical concepts and DSP algorithms developed and explained. Existing books in this area tend to fall into one of two camps - either a highly mathematical treatment with few practical examples of the everyday uses of DSP, or else very verbose and descriptive treatments with little or no mathematical content to back up the topics. The former type of text is excellent as a standard reference, but poor as a learning vehicle. The latter type of text is good for general knowledge, but fails to meet the needs of University students and practicing industry professionals. Students need a learn-by-doing approach, and industry professionals need to come up to speed as rapidly as possible. The book uses MATLAB throughout, in an established industry and University programming environment. Furthermore, it requires that the reader only have access to the Student/Educational version of MATLAB, not the full commercial

2. Record Nr.	UNINA9910477326503321
Autore	Sologub Fedor
Titolo	Sobranie socinenij. Gesammelte Werke : Teil 1: Rasskazy (1894-1908). Hrsg. von Ulrich Steltner / Fedor Sologub, Ulrich Steltner
Pubbl/distr/stampa	Frankfurt a.M. : PH02, 1992
Edizione	[1st, New ed.]
Descrizione fisica	1 online resource (436 p.) : , EPDF
Collana	Slavistische Beiträge ; 291
Soggetti	Literature & literary studies
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Peter Lang GmbH, Internationaler Verlag der Wissenschaften
Sommario/riassunto	Der vorliegende Band ist Teil einer Ausgabe der Werke des russischen Symbolisten Fedor Kuz'mic Teternikov alias Fedor Sologub, die in russischer Sprache erscheinen soll und die zum Ziel hat, das verstreute und seit dem 1. Weltkrieg nicht mehr repräsentativ publizierte Werk Sologubs in der Originalsprache zugänglich zu machen.