LAB 1. Signals in Matlab

Introduction

This lab will describe how to use Matlab for some basic signal representation and manipulation:

- Creating and importing signals
- Sampling and resampling
- Signal visualization
- Modeling noise
- Modulation

You will be needing to run some special programs for all the MATLAB Labs in EE289. Go to

http://www.cems.uvm.edu/~mirchand/classes/EE275/2012/Software/

and download *sg01* and *sg02* and save it somewhere on your disc. When using Matlab, set a path to it, so that all functions in *sg01* and *sg02* are accessible.

Discrete Signals

```
Time base:      t = [0.0 0.1 0.2 0.3]
Signal data:    x = [1.0 3.2 2.0 8.5]
```

The central data construct in Matlab is the numeric array, an ordered collection of real or complex numeric data with one or more dimensions. The basic data objects of signal processing (one-dimensional signals or sequences, multichannel signals, and two-dimensional signals) are all naturally suited to array representation.

Matlab represents ordinary one-dimensional sampled data signals, or sequences, as vectors. Vectors are 1-by-n or n-by-1 arrays, where n is the number of samples in the sequence.

One way to introduce a sequence into Matlab is to enter it as a list of elements at the command prompt. The statement

```
x = [1 2 3 4 5]
```

Lab 1 Signals In Matlab

Jose Luis Rojo-Alvarez,Manel Martinez-Ramon,Jordi Munoz-Mari,Gustau Camps-Valls

Lab 1 Signals In Matlab:

Labs for Signals and Systems Using MATLAB Virginia L. Stonick,Kevin Bradley,1996 This text uniquely connects theory with application using MATLAB and provides an appreciation for the underlying mathematics within linear system theory It ties MATLAB to the teaching of physical applications of signals and systems in a laboratory setting which Stonick is the first instructor in the country to accomplish *Digital Signal Processing Laboratory* B. Preetham Kumar,2016-04-19 Considering the rapid evolution of digital signal processing DSP those studying this field require an easily understandable text that complements practical software and hardware applications with sufficient coverage of theory Designed to keep pace with advancements in the field and elucidate lab work Digital Signal Processing Laboratory *A Laboratory Manual in Biophotonics* Vadim Backman,Adam Wax,Hao F. Zhang,2018-05-15 Biophotonics is a burgeoning field that has afforded researchers and medical practitioners alike an invaluable tool for implementing optical microscopy Recent advances in research have enabled scientists to measure and visualize the structural composition of cells and tissue while generating applications that aid in the detection of diseases such as cancer Alzheimer s and atherosclerosis Rather than divulge a perfunctory glance into the field of biophotonics this textbook aims to fully immerse senior undergraduates graduates and research professionals in the fundamental knowledge necessary for acquiring a more advanced awareness of concepts and pushing the field beyond its current boundaries The authors furnish readers with a pragmatic quantitative and systematic view of biophotonics engaging such topics as light tissue interaction the use of optical instrumentation and formulating new methods for performing analysis Designed for use in classroom lectures seminars or professional laboratories the inclusion and incorporation of this textbook can greatly benefit readers as it serves as a comprehensive introduction to current optical techniques used in biomedical applications Caters to the needs of graduate and undergraduate students as well as R D professionals engaged in biophotonics research Guides readers in the field of biophotonics beginning with basic concepts before proceeding to more advanced topics and applications Serves as a primary text for attaining an in depth systematic view of principles and applications related to biophotonics Presents a quantitative overview of the fundamentals of biophotonic technologies Equips readers to apply fundamentals to practical aspects of biophotonics **Fundamentals of Signals and Systems with CD-ROM** Philip D. Cha,John I. Molinder,2006-07-27 This innovative textbook provides a solid foundation in both signal processing and systems modeling using a building block approach The authors show how to construct signals from fundamental building blocks and demonstrate a range of powerful design and simulation techniques in Matlab recognizing that signal data are usually received in discrete samples regardless of whether the underlying system is discrete or continuous in nature Containing many worked examples homework exercises and a range of Matlab laboratory exercises this is an ideal textbook for undergraduate students of engineering and related disciplines **New Realities, Mobile Systems and Applications** Michael E. Auer,Thrasyvoulos Tsiatsos,2022-04-08 This book devotes to new approaches

in interactive mobile technologies with a focus on learning Interactive mobile technologies are today the core of many if not all fields of society Not only the younger generation of students expects a mobile working and learning environment And nearly daily new ideas technologies and solutions boost this trend To discuss and assess the trends in the interactive mobile field are the aims connected with the 14th International Conference on Interactive Mobile Communication Technologies and Learning IMCL2021 which was held online from 4 to 5 November 2021 Since its beginning in 2006 this conference is devoted to new approaches in interactive mobile technologies with a focus on learning Nowadays the IMCL conferences are a forum of the exchange of new research results and relevant trends as well as the exchange of experiences and examples of good practice Interested readership includes policy makers academics educators researchers in pedagogy and learning theory school teachers learning Industry further education lecturers etc *Mechanics of Materials Laboratory Course* Ghatu Subhash,Shannon Ridgeway,2022-05-31 This book is designed to provide lecture notes theory and experimental design of major concepts typically taught in most Mechanics of Materials courses in a sophomore or junior level Mechanical or Civil Engineering curriculum Several essential concepts that engineers encounter in practice such as statistical data treatment uncertainty analysis and Monte Carlo simulations are incorporated into the experiments where applicable and will become integral to each laboratory assignment Use of common strain stress measurement techniques such as strain gages are emphasized Application of basic electrical circuits such as Wheatstone bridge for strain measurement and use of load cells accelerometers etc are employed in experiments Stress analysis under commonly applied loads such as axial loading compression and tension shear loading flexural loading cantilever and four point bending impact loading adhesive strength creep etc are covered LabVIEW software with relevant data acquisition DAQ system is used for all experiments Two final projects each spanning 2 3 weeks are included i flexural loading with stress intensity factor determination and ii dynamic stress wave propagation in a slender rod and determination of the stress strain curves at high strain rates The book provides theoretical concepts that are pertinent to each laboratory experiment and prelab assignment that a student should complete to prepare for the laboratory Instructions for securing off the shelf components to design each experiment and their assembly with figures are provided Calibration procedure is emphasized whenever students assemble components or design experiments Detailed instructions for conducting experiments and table format for data gathering are provided Each lab assignment has a set of questions to be answered upon completion of experiment and data analysis Lecture notes provide detailed instructions on how to use LabVIEW software for data gathering during the experiment and conduct data analysis **Digital Signal Processing with Kernel Methods** Jose Luis Rojo-Alvarez,Manel Martinez-Ramon,Jordi Munoz-Mari,Gustau Camps-Valls,2017-12-22 A realistic and comprehensive review of joint approaches to machine learning and signal processing algorithms with application to communications multimedia and biomedical engineering systems Digital Signal Processing with Kernel Methods reviews the milestones in the mixing of classical digital signal processing models and

advanced kernel machines statistical learning tools It explains the fundamental concepts from both fields of machine learning and signal processing so that readers can quickly get up to speed in order to begin developing the concepts and application software in their own research Digital Signal Processing with Kernel Methods provides a comprehensive overview of kernel methods in signal processing without restriction to any application field It also offers example applications and detailed benchmarking experiments with real and synthetic datasets throughout Readers can find further worked examples with Matlab source code on a website developed by the authors http github com DSPKM Presents the necessary basic ideas from both digital signal processing and machine learning concepts Reviews the state of the art in SVM algorithms for classification and detection problems in the context of signal processing Surveys advances in kernel signal processing beyond SVM algorithms to present other highly relevant kernel methods for digital signal processing An excellent book for signal processing researchers and practitioners Digital Signal Processing with Kernel Methods will also appeal to those involved in machine learning and pattern recognition   *A Digital Signal Processing Laboratory Using the TMS320C30* Henrik V. Sorensen,Jianping Chen,1997 This book is appropriate for first year graduate students as well as undergraduate seniors Designed for courses in DSP DSP Hardware Microprocessors Centered around a set of experiments for the TMS320C30 the goal of this book is to teach how to program the TMS320C30 and illustrate concepts from the theory of digital signal processing The user must have a solid understanding of DSP algorithms as well as an appreciation of basic computer architecture concepts   Digital Signal Processing Laboratory Experiments Using MATLAB Hardik Modi,2014-03-24 Technical Report from the year 2014 in the subject Computer Science Technical Computer Science language English abstract This is Laboratory Manual of Digital Signal Processing All experiments are performed on MATLAB e g List of Experiments 1 To represent basic signals like Unit Impulse Ramp Unit Step Exponential 2 To generate discrete sine and cosine signals with given sampling frequency 3 To represent complex exponential as a function of real and imaginary part 4 To determine impulse and step response of two vectors using MATLAB 5 To perform convolution between two vectors using MATLAB 6 To perform cross correlation between two vectors using MATLAB   *Signals and Systems Laboratory with MATLAB* Alex Palamides,Anastasia Veloni,2010-08-13 Developed as a textbook for the laboratory part of the course Signals and Systems this book introduces students to theory through analytical examples implemented in Matlab code Thus every theoretical equation is accompanied by the corresponding code implementation Instead of using big M Files or author written functions with comments the commands are executed one by one at the Matlab command line and the results dong with comments are given side by side in two or three column tables This is very helpful and popular to students in Electrical Engineering since the nature of this course includes detailed mathematical derivations and demands a strong mathematical background

Concepts in Systems and Signals John D. Sherrick,2005 This book provides a complete overview of the foundations of continuous time systems and introduces the new circuit theory of discrete time systems It looks at the concepts and analysis

tools associated with signal spectra focusing on periodic signals and the Discrete Fourier Transform making readers aware of the capabilities of MATLAB Topics include analysis techniques frequency response standard filters spectral analysis discrete time signals and systems IRR and FIR filter designs and sampling strategies For those involved in electrical computer and telecommunications engineering **Design of Compact Disc Laboratory Experiment on Quantization Error, Dither, and Noise Shaping** Mark Jo,1995 **A Course in Digital Signal Processing** Boaz Porat,1997 Highly acclaimed teacher and researcher Porat presents a clear approachable text for senior and first year graduate level DSP courses Principles are reinforced through the use of MATLAB programs and application oriented problems *Fundamentals of Communications Systems* Michael P. Fitz,2007-04-30 Get a Solid Account of Physical Layer Communications Theory Illustrated with Numerous Interactive MATLAB Mini Projects You can rely on Fundamentals of Communications Systems for a solid introduction to physical layer communications theory filled with modern implementations and MATLAB examples This state of the art guide covers essential theory and current engineering practice carefully explaining the real world tradeoffs necessary among performance spectral efficiency and complexity Written by an award winning communications expert the book first takes readers through analog communications basics amplitude modulations analog angle modulation and random processes This essential resource then explains noise in bandpass communications systems bandpass Gaussian random processes digital communications basics complexity of optimum demodulation spectrally efficient data transmission and more Fundamentals of Communications Systems features A modern approach to communications theory reflecting current engineering applications Numerous MATLAB problems integrated throughout with software available for download Detailed coverage of tradeoffs among performance spectral efficiency and complexity in engineering design Text written in four parts for easy modular presentation Inside This On Target Communications Engineering Tool Mathematical Foundations Analog Communications Basics Amplitude Modulations Analog Angle Modulation More Topics in Analog Communications Random Processes Noise in Bandpass Communications Systems Bandpass Gaussian Random Processes Digital Communications Basics Optimal Single Bit Demodulation Structures Transmitting More than One Bit Complexity of Optimum Demodulation Spectrally Efficient Data Transmission Automatic Control and Computer Sciences ,2000 **IEEE Engineering in Medicine and Biology Magazine** ,2003 **Audio Signal Processing and Coding** Andreas Spanias,Ted Painter,Venkatraman Atti,2007-02-09 Audio Signal Processing and Coding provides a thorough treatment of algorithms standards for perceptual coding of high fidelity audio overage includes relevant research signal models details on standardisation applications details on performance measures perceptual measurement systems Adaptive Systems in Control and Signal Processing 1995 Csilla Bányász,1995 Paperback Leading academic and industrial researchers working with adaptive systems and signal processing have been given the opportunity to exchange ideas concepts and solutions at the IFAC Symposia on Adaptive Systems in Control and Signal Processing This postprint volume contains all those papers which were presented at the 5th IFAC

Symposium in Budapest in 1995 The technical program was composed of a number of invited and contributed sessions and a special case study session providing a good balance between applications and theory oriented papers **Proceedings** American Society for Engineering Education. Conference,1995 **Annual Conference Proceedings** American Society for Engineering Education. Conference,1995

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