MATLAB Primer

1 Documentation

- You can access the Matlab help documentation through the blue-white question mark icon in the top bar.

- To get information about a specific command, type

  — help *command*.

- There are a number of free tutorials and other resources available online, e.g.
  http://www.mathworks.com/help/techdoc/learn_matlab/bqr_2pi.html
  http://www4.ncsu.edu/unity/users/p/pfackler/www/MARUNER.htm

- Further Readings: **Applied Computational Economics and Finance** by Mario J. Miranda and Paul L. Fackler. On Fackler's Homepage, you can also download the so-called **CompEcon toolbox**, which contains a lot of useful functions.

2 Basics

2.1 Entering and displaying data

- Data is entered in Matlab in matrix form. For example, the 4×4 matrix

$$A = \begin{bmatrix} 16 & 3 & 2 & 13 \\ 5 & 10 & 11 & 8 \\ 9 & 6 & 7 & 12 \\ 4 & 15 & 14 & 1 \end{bmatrix}$$

  is generated by typing:

  — A = [16 3 2 13; 5 10 11 8; 9 6 7 12; 4 15 14 1];

  To create a **row vector** type:

  — B = [1 2 3 4]

  For a **column vector** type:

  — C = [1; 2; 3; 4]

  A scalar is a 1×1 matrix:

  — D = 5

- Note the following:

  — The "=" assigns a value to (the variable) A or, in other words, it stores the matrix in the workspace under the name A;

  — To enter a matrix, use [ ];

  — ";" ends a row; within a row, " " indicates a new column.

- To change a variable, just assign a new value to it:

  — C = [2; 3; 4; 5];

  You can also assign a new value by using the old:

A Primer On Matlab

Annelies Wilder-Smith

A Primer On Matlab:

   Random Signals and Processes Primer with MATLAB Gordana Jovanovic Dolecek,2012-08-21 This book provides anyone needing a primer on random signals and processes with a highly accessible introduction to these topics It assumes a minimal amount of mathematical background and focuses on concepts related terms and interesting applications to a variety of fields All of this is motivated by numerous examples implemented with MATLAB as well as a variety of exercises at the end of each chapter   MATLAB® for Photomechanics- A Primer A. Asundi,2002-12-10 The term photomechanics describes a suite of experimental techniques which use optics photo for studying problems in mechanics The field has been in existence for some time but has always lagged behind other experimental and numerical techniques The main reason for this is that the interpretation of data which whilst providing whole field visualization is not in a form readily amenable to the end user Digital image processing has become common within the photomechanics community However one approach does not fit all and subtle variations in technique and method have been developed by different groups working on specific applications This primer enables the user to get started with their experimental analysis quickly It is based on the universally popular MATLAB software which includes dedicated and optimized functions for a variety of image processing tasks These can readily scripted along with the necessary mathematical expressions for particular experimental techniques The book provides an introduction to some of the optical techniques and then introduces MATLAB routines specific to the image processing in experimental mechanics There are also case studies on particular techniques As part of the book a collection of M files is provided on CD ROM which also contains example images and test code This provides a starting point for the user who can then easily add or edit statements or function for their own images MATLAB is a registered trademark of The MathWorks Inc For product information visit http www mathworks comhttp www mathworks com   *Random Signals and Process Primer with MATLAB* Gordana Jovanovic Dolecek,2012-04-01 This book provides anyone needing a primer on random signals and processes with a highly accessible introduction to these topics It assumes a minimal amount of mathematical background and focuses on concepts related terms and interesting applications to a variety of fields All of this is motivated by numerous examples implemented with MATLAB   **A not too short Introduction to MATLAB** Stefan Wicki,2014-02-07 This book is for aspiring engineers or scientists and all who come in contact with MATLAB for the first time There is an uncountable number of books on MATLAB Most books on MATLAB are engineering or mathematical books These books cover specific and complex problems in engineering science or mathematics and demonstrate how to solve it with MATLAB Only scientists and engineers with expertise in this subject could work with these books For engineering students with little knowledge in these specific areas there is no adequate book for learning the basics about MATLAB Through this book it is possible to learn about MATLAB as an autodidact along with easy examples The focus lies on learning about the software without any previous knowledge necessary Stefan Wicki teaches at the university of applied sciences Fachhochschule Nordwestschweiz

Switzerland   **Fundamentals of Mechanical Vibrations** Liang-Wu Cai,2016-06-13 This introductory book covers the most fundamental aspects of linear vibration analysis for mechanical engineering students and engineers Consisting of five major topics each has its own chapter and is aligned with five major objectives of the book It starts from a concise rigorous and yet accessible introduction to Lagrangian dynamics as a tool for obtaining the governing equation s for a system the starting point of vibration analysis The second topic introduces mathematical tools for vibration analyses for single degree of freedom systems In the process every example includes a section Exploring the Solution with MATLAB This is intended to develop student s affinity to symbolic calculations and to encourage curiosity driven explorations The third topic introduces the lumped parameter modeling to convert simple engineering structures into models of equivalent masses and springs The fourth topic introduces mathematical tools for general multiple degrees of freedom systems with many examples suitable for hand calculation and a few computer aided examples that bridges the lumped parameter models and continuous systems The last topic introduces the finite element method as a jumping point for students to understand the theory and the use of commercial software for vibration analysis of real world structures   *Statistics in MATLAB* MoonJung Cho,Wendy L. Martinez,2014-12-15 This primer provides an accessible introduction to MATLAB version 8 and its extensive functionality for statistics Fulfilling the need for a practical user s guide the book covers capabilities in the main MATLAB package the Statistics Toolbox and the student version of MATLAB presenting examples of how MATLAB can be used to analyze data It explains how to determine what method should be used for analysis and includes figures visual aids and access to a companion website with data sets and additional examples   Computational Statistics Handbook with MATLAB Wendy L. Martinez,Angel R. Martinez,2015-12-16 A Strong Practical Focus on Applications and AlgorithmsComputational Statistics Handbook with MATLAB Third Edition covers today s most commonly used techniques in computational statistics while maintaining the same philosophy and writing style of the bestselling previous editions The text keeps theoretical concepts to a minimum emphasizing the i   *Signals and Systems* Matthew N. O. Sadiku,Warsame Hassan Ali,2015-09-22 Signals and Systems A Primer with MATLAB provides clear interesting and easy to understand coverage of continuous time and discrete time signals and systems Each chapter opens with a historical profile or career talk followed by an introduction that states the chapter objectives and links the chapter to the previous ones All principles are pr   *Game-Theoretical Models in Biology* Mark Broom,Jan Rychtar,2013-03-27 Covering the major topics of evolutionary game theory Game Theoretical Models in Biology presents both abstract and practical mathematical models of real biological situations It discusses the static aspects of game theory in a mathematically rigorous way that is appealing to mathematicians In addition the authors explore many applications of game theory to biology making the text useful to biologists as well The book describes a wide range of topics in evolutionary games including matrix games replicator dynamics the hawk dove game and the prisoner s dilemma It covers the evolutionarily stable strategy a key concept in biological games and offers in depth details of the

mathematical models Most chapters illustrate how to use MATLAB to solve various games Important biological phenomena such as the sex ratio of so many species being close to a half the evolution of cooperative behavior and the existence of adornments for example the peacock s tail have been explained using ideas underpinned by game theoretical modeling Suitable for readers studying and working at the interface of mathematics and the life sciences this book shows how evolutionary game theory is used in the modeling of these diverse biological phenomena <u>Process Modelling and Simulation with Finite Element Methods</u> William B. J. Zimmerman,2004 This book presents a systematic description and case studies of chemical engineering modelling and simulation based on the MATLAB FEMLAB tools in support of selected topics in undergraduate and postgraduate programmes that require numerical solution of complex balance equations ordinary differential equations partial differential equations nonlinear equations integro differential equations These systems arise naturally in analysis of transport phenomena process systems chemical reactions and chemical thermodynamics and particle rate processes Templates are given for modelling both state of the art research topics e g microfluidic networks film drying multiphase flow population balance equations and case studies of commonplace design calculations mixed phase reactor design heat transfer flowsheet analysis of unit operations flash distillations etc The great strength of this book is that it makes modelling and simulating in the MATLAB FEMLAB environment approachable to both the novice and the expert modeller **A Primer of Multivariate Statistics** Richard J. Harris,1985 <u>MATLAB Primer</u> Kermit Sigmon,1994-08-29 This text provides a guide to using MATLAB problem solving software This fourth edition contains a substantial new section on the Symbolic Math Toolbox which merges the symbolic capabilities of the software Maple with the numerical capabilities of MATLAB <u>A Primer of Persian</u> George Speirs Alexander Ranking,1907 **Adaptive Filtering Primer with MATLAB** Alexander D. Poularikas,2017-12-19 Because of the wide use of adaptive filtering in digital signal processing and because most of the modern electronic devices include some type of an adaptive filter a text that brings forth the fundamentals of this field was necessary The material and the principles presented in this book are easily accessible to engineers scientists and students who would like to learn the fundamentals of this field and have a background at the bachelor level Adaptive Filtering Primer with MATLAB clearly explains the fundamentals of adaptive filtering supported by numerous examples and computer simulations The authors introduce discrete time signal processing random variables and stochastic processes the Wiener filter properties of the error surface the steepest descent method and the least mean square LMS algorithm They also supply many MATLAB functions and m files along with computer experiments to illustrate how to apply the concepts to real world problems The book includes problems along with hints suggestions and solutions for solving them An appendix on matrix computations completes the self contained coverage With applications across a wide range of areas including radar communications control medical instrumentation and seismology Adaptive Filtering Primer with MATLAB is an ideal companion for quick reference and a perfect concise introduction to the field *Probability with STEM Applications*

Matthew A. Carlton,Jay L. Devore,2020-12-16 Probability with STEM Applications Third Edition is an accessible and well balanced introduction to post calculus applied probability Integrating foundational mathematical theory and the application of probability in the real world this leading textbook engages students with unique problem scenarios and more than 1100 exercises of varying levels of difficulty The text uses a hands on software oriented approach to the subject of probability MATLAB and R examples and exercises complemented by computer code that enables students to create their own simulations demonstrate the importance of software to solve problems that cannot be obtained analytically Revised and updated throughout the textbook covers basic properties of probability random variables and their probability distributions a brief introduction to statistical inference Markov chains stochastic processes and signal processing This new edition is the perfect text for a one semester course and contains enough additional material for an entire academic year The blending of theory and application will appeal not only to mathematics and statistics majors but also to engineering students and quantitative business and social science majors New to this Edition Offered as a traditional textbook and in enhanced ePub format containing problems with show hide solutions and interactive applets and illustrations Revised and expanded chapters on conditional probability and independence families of continuous distributions and Markov chains New problems and updated problem sets throughout Features Introduces basic theoretical knowledge in the first seven chapters serving as a self contained textbook of roughly 650 problems Provides numerous up to date examples and problems in R and MATLAB Discusses examples from recent journal articles classic problems and various practical applications Includes a chapter specifically designed for electrical and computer engineers suitable for a one term class on random signals and noise Contains appendices of statistical tables background mathematics and important probability distributions   Dynamic Systems Craig A. Kluever,2021-08-24 The simulation of complex integrated engineering systems is a core tool in industry which has been greatly enhanced by the MATLAB and Simulink software programs The second edition of Dynamic Systems Modeling Simulation and Control teaches engineering students how to leverage powerful simulation environments to analyze complex systems Designed for introductory courses in dynamic systems and control this textbook emphasizes practical applications through numerous case studies derived from top level engineering from the AMSE Journal of Dynamic Systems Comprehensive yet concise chapters introduce fundamental concepts while demonstrating physical engineering applications Aligning with current industry practice the text covers essential topics such as analysis design and control of physical engineering systems often composed of interacting mechanical electrical and fluid subsystem components Major topics include mathematical modeling system response analysis and feedback control systems A wide variety of end of chapter problems including conceptual problems MATLAB problems and Engineering Application problems help students understand and perform numerical simulations for integrated systems   **Statistical Modeling and Computation** Dirk P. Kroese,Joshua C.C. Chan,2013-11-18 This textbook on statistical modeling and statistical inference will assist advanced

undergraduate and graduate students Statistical Modeling and Computation provides a unique introduction to modern Statistics from both classical and Bayesian perspectives It also offers an integrated treatment of Mathematical Statistics and modern statistical computation emphasizing statistical modeling computational techniques and applications Each of the three parts will cover topics essential to university courses Part I covers the fundamentals of probability theory In Part II the authors introduce a wide variety of classical models that include among others linear regression and ANOVA models In Part III the authors address the statistical analysis and computation of various advanced models such as generalized linear state space and Gaussian models Particular attention is paid to fast Monte Carlo techniques for Bayesian inference on these models Throughout the book the authors include a large number of illustrative examples and solved problems The book also features a section with solutions an appendix that serves as a MATLAB primer and a mathematical supplement

Fundamentals of Electric Machines: A Primer with MATLAB Warsame Hassan Ali,Matthew N. O. Sadiku,Samir Abood,2019-06-12 An electric machine is a device that converts mechanical energy into electrical energy or vice versa It can take the form of an electric generator electric motor or transformer Electric generators produce virtually all electric power we use all over the world Electric machine blends the three major areas of electrical engineering power control and power electronics This book presents the relation of power quantities for the machine as the current voltage power flow power losses and efficiency This book will provide a good understanding of the behavior and its drive beginning with the study of salient features of electrical dc and ac machines **Signals and Systems** Matthew N. O. Sadiku,Warsame Hassan Ali,2015 Signals and Systems A Primer with MATLAB provides clear interesting and easy to understand coverage of continuous time and discrete time signals and systems Each chapter opens with a historical profile or career talk followed by an introduction that states the chapter objectives and links the chapter to the previous ones All principles are 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 *MATLAB Primer, Sixth Edition* Kermit Sigmon,Timothy A. Davis,2001-10-10 The new edition of this bestselling primer features the latest release of the powerhouse mathematics software package MATLAB version 6 1 MATLAB recently incorporated an extensive graphical user interface GUI and now more than ever it offers an intuitive language for expressing problems and solutions both mathematically and graphically This edition of the Primer offers a complete overview of the new GUI along with a host of other refinements More emphasis on matrix operations and a new section on the find function that helps you avoid using cumbersome DO loops and makes your code faster and easier to read Full descriptions of all examples which are now linked to lead you through each chapter showing how to input and use each example in actual problems A new chapter on programming that clearly shows how to call a C routine from MATLAB New discussions on sparse matrix ordering and visualizations that show how to take advantage of sparsity and solve problems that may otherwise be intractable Why spend endless hours struggling through thick manuals when the MATLAB Primer Sixth

Edition can get you going in a fraction of the time It provides streamlined but thorough coverage convenient size and an economical price that make it not only an outstanding introduction for new users but a handy reference for those already using MATLAB to solve real problems

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