Chapter 4
Simulation Programming with VBASim in MATLAB

This chapter shows how simulations of some of the examples in Chap. 3 can be programmed in VBASim in MATLAB. The goals of the chapter are to introduce VBASim, and to hint at the experiment design and analysis issues that will be covered in later chapters.

4.1 VBASim Overview

VBASim in MATLAB is a collection of MATLAB Scripts, Functions and Class M-files that aid in developing discrete–event simulations. They are entirely open source and can be modified to suit the user. The random–number and random–variate generation routines are MATLAB translations of the corresponding routines in simlib (Law 2007) which is written in C. VBASim is designed to be easy to understand and use, but not necessarily efficient.

Here is a brief description of the Scripts and Functions in VBASim:

function VBASimInit: Initializes VBASim for use, typically called before the start of each replication.

function Schedule: Schedules future events.

function SchedulePlus: Schedules future events and allows an object to be stored with the event.

function Report: Writes a result to a specific row and column of an Excel worksheet.

function ClearStats: Clears certain statistics being recorded by VBASim.

function InitializeRNSeed: Initializes the random–number generator; typically called only once in a simulation.

function Expon: Generates exponentially distributed random variates.

function Uniform: Generates uniformly distributed random variates.

function Random_integer: Generates a random integer.

function Erlang: Generates Erlang distributed random variates.

Chapter 4 Simulation Programming With Vbasim In Matlab

VM Jensen

Chapter 4 Simulation Programming With Vbasim In Matlab:

Foundations and Methods of Stochastic Simulation Barry Nelson,2013-01-31 This graduate level text covers modeling programming and analysis of simulation experiments and provides a rigorous treatment of the foundations of simulation and why it works It introduces object oriented programming for simulation covers both the probabilistic and statistical basis for simulation in a rigorous but accessible manner providing all necessary background material and provides a modern treatment of experiment design and analysis that goes beyond classical statistics The book emphasizes essential foundations throughout rather than providing a compendium of algorithms and theorems and prepares the reader to use simulation in research as well as practice The book is a rigorous but concise treatment emphasizing lasting principles but also providing specific training in modeling programming and analysis In addition to teaching readers how to do simulation it also prepares them to use simulation in their research no other book does this An online solutions manual for end of chapter exercises is also provided   Foundations and Methods of Stochastic Simulation Barry L. Nelson,Linda Pei,2021-11-10 This graduate level textbook covers modelling programming and analysis of stochastic computer simulation experiments including the mathematical and statistical foundations of simulation and why it works The book is rigorous and complete but concise and accessible providing all necessary background material Object oriented programming of simulations is illustrated in Python while the majority of the book is programming language independent In addition to covering the foundations of simulation and simulation programming for applications the text prepares readers to use simulation in their research A solutions manual for end of chapter exercises is available for instructors   System Simulation Techniques with MATLAB and Simulink Dingy¿ Xue,Yang Chen,2013-09-16 System Simulation Techniques with MATLAB and Simulink comprehensively explains how to use MATLAB and Simulink to perform dynamic systems simulation tasks for engineering and non engineering applications This book begins with covering the fundamentals of MATLAB programming and applications and the solutions to different mathematical problems in simulation The fundamentals of Simulink modelling and simulation are then presented followed by coverage of intermediate level modelling skills and more advanced techniques in Simulink modelling and applications Finally the modelling and simulation of engineering and non engineering systems are presented The areas covered include electrical electronic systems mechanical systems pharmacokinetic systems video and image processing systems and discrete event systems Hardware in the loop simulation and real time application are also discussed Key features Progressive building of simulation skills using Simulink from basics through to advanced levels with illustrations and examples Wide coverage of simulation topics of applications from engineering to non engineering systems Dedicated chapter on hardware in the loop simulation and real time control End of chapter exercises A companion website hosting a solution manual and powerpoint slides System Simulation Techniques with MATLAB and Simulink is a suitable textbook for senior undergraduate postgraduate courses covering modelling and simulation and is also an ideal reference for researchers and practitioners in

industry *Introduction to Modeling and Simulation with MATLAB® and Python* Steven I. Gordon,Brian Guilfoos,2017-07-12 Introduction to Modeling and Simulation with MATLAB and Python is intended for students and professionals in science social science and engineering that wish to learn the principles of computer modeling as well as basic programming skills The book content focuses on meeting a set of basic modeling and simulation competencies that were developed as part of several National Science Foundation grants Even though computer science students are much more expert programmers they are not often given the opportunity to see how those skills are being applied to solve complex science and engineering problems and may also not be aware of the libraries used by scientists to create those models The book interleaves chapters on modeling concepts and related exercises with programming concepts and exercises The authors start with an introduction to modeling and its importance to current practices in the sciences and engineering They introduce each of the programming environments and the syntax used to represent variables and compute mathematical equations and functions As students gain more programming expertise the authors return to modeling concepts providing starting code for a variety of exercises where students add additional code to solve the problem and provide an analysis of the outcomes In this way the book builds both modeling and programming expertise with a just in time approach so that by the end of the book students can take on relatively simple modeling example on their own Each chapter is supplemented with references to additional reading tutorials and exercises that guide students to additional help and allows them to practice both their programming and analytical modeling skills In addition each of the programming related chapters is divided into two parts one for MATLAB and one for Python In these chapters the authors also refer to additional online tutorials that students can use if they are having difficulty with any of the topics The book culminates with a set of final project exercise suggestions that incorporate both the modeling and programming skills provided in the rest of the volume Those projects could be undertaken by individuals or small groups of students The companion website at http www intromodeling com provides updates to instructions when there are substantial changes in software versions as well as electronic copies of exercises and the related code The website also offers a space where people can suggest additional projects they are willing to share as well as comments on the existing projects and exercises throughout the book Solutions and lecture notes will also be available for qualifying instructors **MATLAB for Engineering and the Life Sciences** Joseph Tranquillo,2011 In recent years the life sciences have embraced simulation as an important tool in biomedical research Engineers are also using simulation as a powerful step in the design process In both arenas Matlab has become the gold standard It is easy to learn flexible and has a large and growing userbase MATLAB for Engineering and the Life Sciences is a self guided tour of the basic functionality of MATLAB along with the functions that are most commonly used in biomedical engineering and other life sciences Although the text is written for undergraduates graduate students and academics those in industry may also find value in learning MATLAB through biologically inspired examples For instructors the book is intended to take the emphasis

off of learning syntax so that the course can focus more on algorithmic thinking Although it is not assumed that the reader has taken differential equations or a linear algebra class there are short introductions to many of these concepts Following a short history of computing the MATLAB environment is introduced Next vectors and matrices are discussed followed by matrix vector operations The core programming elements of MATLAB are introduced in three successive chapters on scripts loops and conditional logic The last three chapters outline how to manage the input and output of data create professional quality graphics and find and use Matlab toolboxes Throughout biomedical examples are used to illustrate MATLAB s capabilities Table of Contents Introduction Matlab Programming Environment Vectors Matrices Matrix Vector Operations Scripts and Functions Loops Conditional Logic Data In Data Out Graphics Toolboxes **MATLAB¨/Simulink¨ Essentials: MATLAB¨/Simulink¨ for Engineering Problem Solving and Numerical Analysis** Sulaymon L. Eshkabilov,2016-09-30 MATLAB Simulink Essentials is an interactive approach based guide for students to learn how to employ essential and hands on tools and functions of the MATLAB and Simulink packages to solve engineering and scientific computer problems which are explained and demonstrated explicitly via examples exercises and case studies The main principle of the book is based on learnng by doing and mastering by practicing It contains hundreds of solved problems with simulation models via M files scripts and Simulink models related to engineering and scientific computing issues The audience of the book is not only limited to undergraduate students majoring in enginering and scientific computing areas but also postgraduate and research students and practicing engineers in industry and independent learners There are many hints and pitfalls indicating efficient usage of MATLAB Simulink tools and functions efficient programming methods and pinpointing most common errors occurred in programming and using MATLAB s built in tools and functions and Simulink modeling Every chapter ends with relevant drill exercises for self testing purposes Back cover **Practical MATLAB** Irfan Turk,2019-10-29 Apply MATLAB programming to the mathematical modeling of real life problems from a wide range of topics This pragmatic book shows you how to solve your programming problems starting with a brief primer on MATLAB and the fundamentals of the MATLAB programming language Then you ll build fully working examples and computational models found in the financial engineering and scientific sectors As part of this section you ll cover signal and image processing as well as GUIs After reading and using Practical MATLAB and its accompanying source code you ll have the practical know how and code to apply to your own MATLAB programming projects What You Will Learn Discover the fundamentals of MATLAB and how to get started with it for problem solving Apply MATLAB to a variety of problems and case studies Carry out economic and financial modeling with MATLAB including option pricing and compound interest Use MATLAB for simulation problems such as coin flips dice rolling random walks and traffic flows Solve computational biology problems with MATLAB Implement signal processing with MATLAB including currents Fast Fourier Transforms FFTs and harmonic analysis Process images with filters and edge detection Build applications with GUIs Who This Book Is For People with some prior experience with programming and

MATLAB   Vibration Simulation Using MATLAB and ANSYS Michael R. Hatch,2000-09-21 Transfer function form zpk state space modal and state space modal forms For someone learning dynamics for the first time or for engineers who use the tools infrequently the options available for constructing and representing dynamic mechanical models can be daunting It is important to find a way to put them all in perspective and have them available for quick reference It is also important to have a strong understanding of modal analysis from which the total response of a system can be constructed Finally it helps to know how to take the results of large dynamic finite element models and build small MATLAB state space models Vibration Simulation Using MATLAB and ANSYS answers all those needs Using a three degree of freedom DOF system as a unifying theme it presents all the methods in one book Each chapter provides the background theory to support its example and each chapter contains both a closed form solution to the problem shown in its entirety and detailed MATLAB code for solving the problem Bridging the gap between introductory vibration courses and the techniques used in actual practice Vibration Simulation Using MATLAB and ANSYS builds the foundation that allows you to simulate your own real life problems Features Demonstrates how to solve real problems covering the vibration of systems from single DOF to finite element models with thousands of DOF Illustrates the differences and similarities between different models by tracking a single example throughout the book Includes the complete closed form solution and the MATLAB code used to solve each problem Shows explicitly how to take the results of a realistic ANSYS finite element model and develop a small MATLAB state space model Provides a solid grounding in how individual modes of vibration combine for overall system response   **Programming for Computations - MATLAB/Octave** Svein Linge,Hans Petter Langtangen,2016-08-01 This book presents computer programming as a key method for solving mathematical problems There are two versions of the book one for MATLAB and one for Python The book was inspired by the Springer book TCSE 6 A Primer on Scientific Programming with Python by Langtangen but the style is more accessible and concise in keeping with the needs of engineering students The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses The emphasis is on generic algorithms clean design of programs use of functions and automatic tests for verification   Physical Modeling in Matlab Allen B. Downey,2009-03-20 Written for beginners this book provides an introduction to programming in MATLAB and simulation of physical systems The book begins with scalar values and gradually works up to vectors and matrices Topics covered include variables and values scripts loops ordinary differential equations vectors and functions MATLAB is used throughout the book to solve many end of chapter exercises Most books that use MATLAB are aimed at readers who know how to program This book is for people who have never programmed before Published under the terms of the GNU Free Documentation License Money raised from the sale of this book supports the development of free software and documentation   **Modeling and Simulation of Systems Using MATLAB and Simulink** Devendra K.

Chaturvedi,2017-12-19 Not only do modeling and simulation help provide a better understanding of how real world systems function they also enable us to predict system behavior before a system is actually built and analyze systems accurately under varying operating conditions Modeling and Simulation of Systems Using MATLAB and Simulink provides comprehensive state of the art coverage of all the important aspects of modeling and simulating both physical and conceptual systems Various real life examples show how simulation plays a key role in understanding real world systems The author also explains how to effectively use MATLAB and Simulink software to successfully apply the modeling and simulation techniques presented After introducing the underlying philosophy of systems the book offers step by step procedures for modeling different types of systems using modeling techniques such as the graph theoretic approach interpretive structural modeling and system dynamics modeling It then explores how simulation evolved from pre computer days into the current science of today The text also presents modern soft computing techniques including artificial neural networks fuzzy systems and genetic algorithms for modeling and simulating complex and nonlinear systems The final chapter addresses discrete systems modeling Preparing both undergraduate and graduate students for advanced modeling and simulation courses this text helps them carry out effective simulation studies In addition graduate students should be able to comprehend and conduct simulation research after completing this book **Physical Modeling in MATLAB** Allen B. Downey,2014 Most books that use MATLAB are aimed at readers who know how to program This book is for people who have never programmed before As a result the order of presentation is unusual The book starts with scalar values and works up to vectors and matrices very gradually This approach is good for beginning programmers because it is hard to understand composite objects until you understand basic programming semantics But there are problems The MATLAB documentation is written in terms of matrices and so are the error messages To mitigate this problem the book explains the necessary vocabulary early and deciphers some of the messages that beginners find confusing Many of the examples in the first half of the book are non standard MATLAB I address this problem in the second half by translating the examples into a more idiomatic style The book puts a lot of emphasis on functions in part because they are an important tool for controlling program complexity and also because they are useful for working with MATLAB tools like fzero and ode45 I assume that readers know calculus differential equations and physics but not linear algebra I explain the math as I go along but the descriptions might not be enough for someone who hasn t seen the material before There are small exercises within each chapter and a few larger exercises at the end of some chapters *MATLAB and Simulink in Action* Dingyü Xue,Feng Pan,2024-05-08 The textbook is intended for teaching MATLAB language and its applications The book is composed of three parts MATLAB programming scientific computing with MATLAB and system simulation with Simulink Since MATLAB is widely used in all fields of science and engineering a good introduction to the language can not only help students learn how to use it to solve practical problems but also provide them with the skills to use MATLAB independently in their later courses and research The three parts of the

book are well balanced and tailored to the needs of engineering students and the mathematical problems commonly encountered in engineering can be easily solved using MATLAB This textbook is suitable for undergraduate and graduate students majoring in science and engineering The study guide of this textbook could be accessed via http sn pub thGR7v This website provides links to recorded teaching videos MATLAB toolbox for the book interactive slide decks files in Powerpoint documents and solution manuals by the authors **Numerical Methods in Engineering with MATLAB** Jaan Kiusalaas,2010 Numerical Methods in Engineering with MATLAB is a text for engineering students and a reference for practicing engineers The choice of numerical methods was based on their relevance to engineering problems Every method is discussed thoroughly and illustrated with problems involving both hand computation and programming MATLAB M files accompany each method and are available on the book website This code is made simple and easy to understand by avoiding complex book keeping schemes while maintaining the essential features of the method MATLAB was chosen as the example language because of its ubiquitous use in engineering studies and practice This new edition includes the new MATLAB anonymous functions which allow the programmer to embed functions into the program rather than storing them as separate files Other changes include the addition of rational function interpolation in Chapter 3 the addition of Ridder s method in place of Brent s method in Chapter 4 and the addition of downhill simplex method in place of the Fletcher Reeves method of optimization in Chapter 10 Provided by publisher **Matlab - Modelling, Programming and Simulations** Emilson Pereira Leita,2010 MATLAB Software for Chemical and Petroleum Engineering (part Four) Ahmmed Saadi Ibrahem,2011-01 In this work provide alotof examples in different fields of chemical engineering and how to design accurate solutions by using MATLAB soft ware Chapter 1 provides 24 examples to undergraduate students how to inter and use Matlab soft ware to solve the problems Chapter 2 provides 3 examples in fluid flow includes different problems and how to solve these problems by programming Chapter 3 provides 8 examples in heat transfer how to solve these problems by programming Chapter 4 provides 22 examples in modeling thermodynamic material balance and chemical reaction design includes different problems with different applications and how to solve these problems by programming **The Next Step in MATLAB for Beginners** Peter I Kattan,2024-12-15 Peter I Kattan a seasoned MATLAB expert with over three decades of experience and a repertoire of acclaimed books on the subject proudly presents The Next Step in MATLAB for Beginners This much anticipated follow up to his best selling book MATLAB for Beginners A Gentle Approach is designed to guide readers beyond the fundamentals and deepen their proficiency in MATLAB The book opens with Chapter 1 Introduction to MATLAB offering a fresh perspective on the software s core interface and capabilities ideal for solidifying foundational skills In Chapter 2 M Files Kattan delves into script and function files equipping readers with the tools to write save and debug their own programs effectively Chapter 3 Basics of Using MATLAB as a General Purpose Programming Language expands on MATLAB s versatility covering essential programming concepts such as loops conditionals and file handling Chapter 4

Matrices in MATLAB explores the backbone of MATLAB s computing power providing insights into advanced matrix manipulations and operations In Chapter 5 MATLAB Drawing Basics readers learn to create compelling visual representations of data through plotting and customization techniques Finally Chapter 6 Symbolic Calculations in MATLAB introduces MATLAB s symbolic math capabilities showcasing how to perform algebraic manipulations solve equations and work with symbolic functions With Kattan s clear explanations and expert guidance The Next Step in MATLAB for Beginners serves as both a continuation and an expansion of the journey for those eager to master MATLAB **Physical Modeling in MATLAB** Allen Downey,2021 Most books that use MATLAB are aimed at readers who know how to program This book is for people who have never programmed before As a result the order of presentation is unusual The book starts with scalar values and works up to vectors and matrices very gradually This approach is good for beginning programmers because it is hard to understand composite objects until you understand basic programming semantics But there are problems The MATLAB documentation is written in terms of matrices and so are the error messages To mitigate this problem the book explains the necessary vocabulary early and deciphers some of the messages that beginners find confusing Many of the examples in the first half of the book are non standard MATLAB I address this problem in the second half by translating the examples into a more idiomatic style The book puts a lot of emphasis on functions in part because they are an important tool for controlling program complexity and also because they are useful for working with MATLAB tools like fzero and ode45 I assume that readers know calculus differential equations and physics but not linear algebra I explain the math as I go along but the descriptions might not be enough for someone who hasn t seen the material before There are small exercises within each chapter and a few larger exercises at the end of some chapters *Modeling and Simulation Using Matlab - Simulink* Shailendra Jain,2016 **Intuitive Probability and Random Processes using MATLAB®** Steven Kay,2017-04-30 Intuitive Probability and Random Processes using MATLAB is an introduction to probability and random processes that merges theory with practice Based on the author s belief that only hands on experience with the material can promote intuitive understanding the approach is to motivate the need for theory using MATLAB examples followed by theory and analysis and finally descriptions of real world examples to acquaint the reader with a wide variety of applications The latter is intended to answer the usual question Why do we have to study this Other salient features are heavy reliance on computer simulation for illustration and student exercises the incorporation of MATLAB programs and code segments discussion of discrete random variables followed by continuous random variables to minimize confusion summary sections at the beginning of each chapter in line equation explanations warnings on common errors and pitfalls over 750 problems designed to help the reader assimilate and extend the concepts Intuitive Probability and Random Processes using MATLAB is intended for undergraduate and first year graduate students in engineering The practicing engineer as well as others having the appropriate mathematical background will also benefit from this book About the Author Steven M Kay is a Professor of Electrical

Engineering at the University of Rhode Island and a leading expert in signal processing He has received the Education Award for outstanding contributions in education and in writing scholarly books and texts from the IEEE Signal Processing society and has been listed as among the 250 most cited researchers in the world in engineering

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