

# Introduction to MATLAB

## – exercises

Markus Kuhn

Computer Science Tripos – Part II

**Exercise 1:** Find a *short* MATLAB expression to build the matrix

$$B = \begin{pmatrix} 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ 9 & 7 & 5 & 3 & 1 & -1 & -3 \\ 4 & 8 & 16 & 32 & 64 & 128 & 256 \end{pmatrix}$$

**Exercise 2:** Give a MATLAB expression that uses only a single matrix multiplication with  $B$  to obtain

- (a) the sum of columns 5 and 7 of  $B$
- (b) the last row of  $B$
- (c) a version of  $B$  with rows 2 and 3 swapped

**Exercise 3:** Give a MATLAB expression that multiplies two vectors to obtain

- (a) the matrix  $\begin{pmatrix} 1 & 2 & 3 & 4 & 5 \\ 1 & 2 & 3 & 4 & 5 \\ 1 & 2 & 3 & 4 & 5 \end{pmatrix}$
- (b) the matrix  $\begin{pmatrix} 0 & 0 & 0 \\ 1 & 1 & 1 \\ 2 & 2 & 2 \\ 3 & 3 & 3 \\ 4 & 4 & 4 \end{pmatrix}$

**Exercise 4:** Modify slide 30 to produce tones of falling frequency instead.

**Exercise 5:**

- (a) Write down the function  $g(t)$  that has the shape of a sine wave that increases linearly in frequency from 0 Hz at  $t = 0$  s to 5 Hz at  $t = 10$  s.
- (b) Plot the graph of this function using MATLAB's `plot` command.
- (c) Add to the same figure (this can be achieved using the `hold` command) in a different colour a graph of the same function sampled at 5 Hz, using the `stem` command.
- (d) [Extra credit] Plot the graph from (c) separately. Can you explain its symmetry? [*Hints*: sampling theorem, aliasing].

# Matlab Exercises Tu Delft

**Kees Vuik, Fred Vermolen, Martin van  
Gijzen, Thea Vuik**

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*Pervasive Computing* Natalia Silvis-Cividjian, 2017-02-15 This book provides a concise introduction to Pervasive Computing otherwise known as Internet of Things IoT and Ubiquitous Computing UbiComp which addresses the seamless integration of computing systems within everyday objects By introducing the core topics and exploring assistive pervasive systems which infer their context through pattern recognition the author provides readers with a gentle yet robust foundation of knowledge to this growing field of research The author explores a range of topics including data acquisition signal processing control theory machine learning and system engineering explaining with the use of simple mathematical concepts the core principles underlying pervasive computing systems Real life examples are applied throughout including self driving cars automatic insulin pumps smart homes and social robotic companions with each chapter accompanied by a set of exercises for the reader Practical tutorials are also available to guide enthusiastic readers through the process of building a smart system using cameras microphones and robotic kits Due to the power of MATLAB™ this can be achieved with no previous programming or robotics experience Although Pervasive Computing is primarily for undergraduate students the book is accessible to a wider audience of researchers and designers who are interested in exploring pervasive computing further

**Numerical Methods for Ordinary Differential Equations** Kees Vuik, Fred Vermolen, Martin van Gijzen, Thea Vuik, 2023-02-08 In this book we discuss several numerical methods for solving ordinary differential equations We emphasize the aspects that play an important role in practical problems We confine ourselves to ordinary differential equations with the exception of the last chapter in which we discuss the heat equation a parabolic partial differential equation The techniques discussed in the introductory chapters for instance interpolation numerical quadrature and the solution to nonlinear equations may also be used outside the context of differential equations They have been included to make the book self contained as far as the numerical aspects are concerned Chapters sections and exercises marked with a are not part of the Delft Institutional Package The numerical examples in this book were implemented in Matlab but also Python or any other programming language could be used A list of references to background knowledge and related literature can be found at the end of this book Extra information about this course can be found at <http://NMODE.ewi.tudelft.nl> among which old exams answers to the exercises and a link to an online education platform We thank Matthias Moller for his thorough reading of the draft of this book and his helpful suggestions

**Flight dynamics and simulation. Pt. 1. Exercises** A.M. Kraeger, A.C. In 't veld, Delft University of Technology, Faculty of Aerospace Engineering, 2007 [Exercises in Computational Mathematics with MATLAB](#) Tom Lyche, Jean-Louis Merrien, 2014-09-02 Designed to provide tools for independent study this book contains student tested mathematical exercises joined with MATLAB programming exercises Most chapters open with a review followed by theoretical and programming exercises with detailed solutions provided for all problems including programs Many of the MATLAB exercises are presented as Russian dolls each question improves and completes the previous program

and results are provided to validate the intermediate programs The book offers useful MATLAB commands advice on tables vectors matrices and basic commands for plotting It contains material on eigenvalues and eigenvectors and important norms of vectors and matrices including perturbation theory iterative methods for solving nonlinear and linear equations polynomial and piecewise polynomial interpolation Bzier curves approximations of functions and integrals and more The last two chapters considers ordinary differential equations including two point boundary value problems and deal with finite difference methods for some partial differential equations The format is designed to assist students working alone with concise Review paragraphs Math Hint footnotes on the mathematical aspects of a problem and MATLAB Hint footnotes with tips on programming

Matlab entrance package Delft University of Technology, Faculty of Electrical Engineering, Mathematics and Computer Science,2012

*MATLAB Manual for Computational Science* Ela Pekalska,2006

**Learning MATLAB** Tobin A. Driscoll,2009-07-23 A handbook for MATLAB which gives a focused approach to the software for students and professional researchers

**MATLAB for Beginners** Peter Kattan,2023-10-05 This book is written for people who wish to learn MATLAB for the first time The book is really designed for beginners and students In addition the book is suitable for students and researchers in various disciplines ranging from engineers and scientists to biologists and environmental scientists One of the objectives of writing this book is to introduce MATLAB and its powerful and simple computational abilities to students in high schools The material presented is very easy and simple to understand written in a gentle manner The topics covered in the book include arithmetic operations variables mathematical functions complex numbers vectors matrices programming graphs solving equations and an introduction to calculus In addition the MATLAB Symbolic Math Toolbox is emphasized in this book There are also over 230 exercises at the ends of chapters for students to practice Detailed solutions to all the exercises are provided in the second half of the book

**Matlab For Engineering** Berardino D'acunto,2021-09-21 This book presents an introduction to Matlab for students and professionals working in the field of engineering and other scientific and technical sectors who have an interest or need to apply Matlab as a tool for undertaking simulations and formulating solutions for the problems concerned The presentation is highly accessible employing a step by step approach in discussing selected problems deduction of the mathematical model from the physical phenomenon followed by analysis of the solutions with Matlab Since a physical phenomenon takes place in space and time the corresponding mathematical model involves partial differential equations For this reason the book is dedicated to numerically solving these equations with the Finite Element Method and Finite Difference Method Throughout the text presents numerous examples and exercises with detailed worked solutions Matlab for Engineering is a useful desktop reference for undergraduates and scientists alike in real world problem solving

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An Introduction to Numerical Methods Abdelwahab Kharab,Ronald Guenther,2023-06-13 An Introduction to Numerical Methods A MATLAB Approach Fifth Edition continues to offer readers an accessible and practical introduction to numerical analysis It presents a wide range of useful and important algorithms for scientific and engineering applications using MATLAB to illustrate each numerical method with full details of the computed results so that the main steps are easily visualized and interpreted This edition also includes new chapters on Approximation of Continuous Functions and Dealing with Large Sets of Data Features Covers the most common numerical methods encountered in science and engineering Illustrates the methods using MATLAB Ideal as an undergraduate textbook for numerical analysis Presents numerous examples and exercises with selected answers provided at the back of the book Accompanied by downloadable MATLAB code hosted at <https://www.routledge.com/9781032406824>

MATLAB® for Engineers Explained Fredrik Gustafsson,Niclas Bergman,2003-01-24 Based on the new guided tour concept that eliminates the start up transient encountered in learning new programming languages this beginner s introduction to MATLAB teaches a sufficient subset of the functionality and gives the reader practical experience on how to find more information Recent developments in MATLAB to advance programming are described using realistic examples in order to prepare students for larger programming projects In addition a large number of exercises tips and solutions mean that the course can be followed with or without a computer The development of MATLAB programming and its use in engineering courses makes this a valuable self study guide for both engineering students and practicing engineers

**MATLAB. Calculus for Engineering and Sciences. Examples and Exercises** Cesar Perez Lopez,2013-11 This book presents scientific calculation techniques

through examples and exercises resolved with MATLAB software and its application to engineering and experimental sciences In successive chapters topics relating to the differential and integral calculus calculation of limits of sequences and functions to work with numerical series and power series to work with differential equations finite difference equations and differential equations in partial derivatives Applications of the derivative and the integral in one and several variables both in the calculation of areas and volumes are developed with special emphasis as in the field of optimization Also treated especially applications of differential equations and numerical calculation methods that approximate the equations and systems of differential ecuacuiones of first order and higher order The contents of the book special also refers to work with operators and functions of real and complex variable and especially the use of specialized functions and functions in m ficheros defined to facilitate programming Likewise presents a wide graphic content that includes the representation of curves surfaces contours graphics of meshes and volumes coordinates Cartesian implicit explicit parametric and polar and their applications to problems of calculating lengths areas and volumes

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[MATLAB for Engineering Applications](#) William John Palm,1999 An expanded version of Palm s Introduction to MATLAB for Engineering this title includes three additional more advanced chapters Statistics Regression and Interpolation Numerical Methods for Calculus and Differential Equations and Symbolic Processing It includes end of chapter Test Your Understanding exercises and examples and exercises drawn from all engineering disciplines

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