

CHAPTER 1 □ MATLAB EXERCISES

1. Consider the linear system of Example 7 in Section 1.2.

$$\begin{aligned}x - 2y + 3z &= 9 \\ -x + 3y &= -4 \\ 2x - 5y + 5z &= 17\end{aligned}$$

- (a) Use the MATLAB command `rref` to solve the system.
 (b) Let A be the coefficient matrix, and B be the right-hand side of the system.

$$A = \begin{bmatrix} 1 & -2 & 3 \\ -1 & 3 & 0 \\ 2 & -5 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 9 \\ -4 \\ 17 \end{bmatrix}$$

Use the MATLAB command `A\B` to solve the system.

2. Enter the matrix

$$A = \begin{bmatrix} -3 & 2 & 4 & 5 & 1 \\ 3 & 0 & 2 & -2 & 0 \\ -9 & 4 & 6 & 12 & 2 \end{bmatrix}$$

Use the MATLAB command `rref` to find the reduced row-echelon form of A . What is the solution to the linear system represented by the augmented matrix A ?

3. Solve the linear system

$$\begin{aligned}16x - 120y + 240z - 140w &= -4 \\ -120x + 1200y - 2700z + 1680w &= 60 \\ 240x - 2700y + 6480z - 4200w &= -180 \\ -140x + 1680y - 4200z + 2800w &= 140\end{aligned}$$

You can display more significant digits of the answer by entering `format long` before solving the system. Return to the standard format by entering `format short`.

4. Use the MATLAB command
- `rref`
- to determine which of the following matrices are row-equivalent to

$$B = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix}$$

$$(a) \begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 0 & -1 & -2 \\ 0 & 1 & 2 & 3 \end{bmatrix} \quad (b) \begin{bmatrix} 1 & 3 & 2 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{bmatrix} \quad (c) \begin{bmatrix} 12 & 11 & 10 & 9 \\ 4 & 3 & 2 & 1 \\ 8 & 7 & 6 & 5 \end{bmatrix}$$

5. Let
- A
- be the coefficient matrix, and
- B
- the right-hand side of the linear system of equations

$$\begin{aligned}3x + 3y + 12z &= 6 \\ x + y + 4z &= 2 \\ 2x + 5y + 20z &= 10 \\ -x + 2y + 8z &= 4.\end{aligned}$$

Enter the matrices A and B , and form the augmented matrix C for this system by using the MATLAB command $C = [A \ B]$. Solve the system using `rref`.

6. The MATLAB command
- `polyfit`
- allows you to fit a polynomial of degree
- $n - 1$
- to a set of
- n
- data points in the plane:

$$(x_1, y_1), (x_2, y_2), \dots, (x_n, y_n).$$

Find the fourth-degree polynomial that fits the five data points of Example 2 in Section 1.3 by letting

$$x = \begin{bmatrix} -2 \\ -1 \\ 0 \\ 1 \\ 2 \end{bmatrix} \quad y = \begin{bmatrix} 3 \\ 5 \\ 1 \\ -4 \\ 10 \end{bmatrix}$$

and entering the MATLAB command `polyfit(x,y,4)`.

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Walter Gander



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Solving ODEs with MATLAB L. F. Shampine, I. Gladwell, S. Thompson, 2003-04-28 This concise text first published in 2003 is for a one semester course for upper level undergraduates and beginning graduate students in engineering science and mathematics and can also serve as a quick reference for professionals The major topics in ordinary differential equations initial value problems boundary value problems and delay differential equations are usually taught in three separate semester long courses This single book provides a sound treatment of all three in fewer than 300 pages Each chapter begins with a discussion of the facts of life for the problem mainly by means of examples Numerical methods for the problem are then developed but only those methods most widely used The treatment of each method is brief and technical issues are minimized but all the issues important in practice and for understanding the codes are discussed The last part of each chapter is a tutorial that shows how to solve problems by means of small but realistic examples [Student Solutions Manual to Accompany Linear Algebra with Applications](#) Gareth Williams, 2010-03-18 *Numerical Computing with MATLAB* Cleve B. Moler, 2010-08-12 A revised textbook for introductory courses in numerical methods MATLAB and technical computing which emphasises the use of mathematical software **Information Technology Workshop in MATLAB** Hari Prabhat Gupta, 2025-06-01 **MATLAB Guide** Desmond J. Higham, Nicholas J. Higham, 2016-12-27 MATLAB is an interactive system for numerical computation that is widely used for teaching and research in industry and academia It provides a modern programming language and problem solving environment with powerful data structures customizable graphics and easy to use editing and debugging tools This third edition of MATLAB Guide completely revises and updates the best selling second edition and is more than 30 percent longer The book remains a lively concise introduction to the most popular and important features of MATLAB and the Symbolic Math Toolbox Key features are a tutorial in Chapter 1 that gives a hands on overview of MATLAB a thorough treatment of MATLAB mathematics including the linear algebra and numerical analysis functions and the differential equation solvers and a web page at <http://www.siam.org/books/ot150> that provides example program files updates and links to MATLAB resources The new edition contains color figures throughout includes pithy discussions of related topics in new Asides boxes that augment the text has new chapters on the Parallel Computing Toolbox object oriented programming graphs and large data sets covers important new MATLAB data types such as categorical arrays string arrays tall arrays tables and timetables contains more on MATLAB workflow including the Live Editor and unit tests and fully reflects major updates to the MATLAB graphics system This book is suitable for both beginners and more experienced users including students researchers and practitioners **The Matrix Eigenvalue Problem** David S. Watkins, 2007-01-01 The first in depth complete and unified theoretical discussion of the two most important classes of algorithms for solving matrix eigenvalue problems QR like algorithms for dense problems and Krylov subspace methods for sparse problems The author discusses the theory of the generic GR algorithm including special cases for example QR SR HR and the development of

Krylov subspace methods This book also addresses a generic Krylov process and the Arnoldi and various Lanczos algorithms which are obtained as special cases Theoretical and computational exercises guide students step by step to the results Downloadable MATLAB programs compiled by the author are available on a supplementary Web site Readers of this book are expected to be familiar with the basic ideas of linear algebra and to have had some experience with matrix computations Ideal for graduate students or as a reference book for researchers and users of eigenvalue codes

MATLAB for Neuroscientists Pascal Wallisch, Michael E. Lusignan, Marc D. Benayoun, Tanya I. Baker, Adam Seth Dickey, Nicholas G. Hatsopoulos, 2014-01-09 MATLAB for Neuroscientists serves as the only complete study manual and teaching resource for MATLAB the globally accepted standard for scientific computing in the neurosciences and psychology This unique introduction can be used to learn the entire empirical and experimental process including stimulus generation experimental control data collection data analysis modeling and more and the 2nd Edition continues to ensure that a wide variety of computational problems can be addressed in a single programming environment This updated edition features additional material on the creation of visual stimuli advanced psychophysics analysis of LFP data choice probabilities synchrony and advanced spectral analysis Users at a variety of levels advanced undergraduates beginning graduate students and researchers looking to modernize their skills will learn to design and implement their own analytical tools and gain the fluency required to meet the computational needs of neuroscience practitioners The first complete volume on MATLAB focusing on neuroscience and psychology applications Problem based approach with many examples from neuroscience and cognitive psychology using real data Illustrated in full color throughout Careful tutorial approach by authors who are award winning educators with strong teaching experience

Direct Methods for Sparse Linear Systems Timothy A. Davis, 2006-09-01 The sparse backslash book Everything you wanted to know but never dared to ask about modern direct linear solvers Chen Greif Assistant Professor Department of Computer Science University of British Columbia Overall the book is magnificent It fills a long felt need for an accessible textbook on modern sparse direct methods Its choice of scope is excellent John Gilbert Professor Department of Computer Science University of California Santa Barbara Computational scientists often encounter problems requiring the solution of sparse systems of linear equations Attacking these problems efficiently requires an in depth knowledge of the underlying theory algorithms and data structures found in sparse matrix software libraries Here Davis presents the fundamentals of sparse matrix algorithms to provide the requisite background The book includes CSpase a concise downloadable sparse matrix package that illustrates the algorithms and theorems presented in the book and equips readers with the tools necessary to understand larger and more complex software packages With a strong emphasis on MATLAB and the C programming language *Direct Methods for Sparse Linear Systems* equips readers with the working knowledge required to use sparse solver packages and write code to interface applications to those packages The book also explains how MATLAB performs its sparse matrix computations Audience This invaluable book is

essential to computational scientists and software developers who want to understand the theory and algorithms behind modern techniques used to solve large sparse linear systems The book also serves as an excellent practical resource for students with an interest in combinatorial scientific computing Preface Chapter 1 Introduction Chapter 2 Basic algorithms Chapter 3 Solving triangular systems Chapter 4 Cholesky factorization Chapter 5 Orthogonal methods Chapter 6 LU factorization Chapter 7 Fill reducing orderings Chapter 8 Solving sparse linear systems Chapter 9 CSparse Chapter 10 Sparse matrices in MATLAB Appendix Basics of the C programming language Bibliography Index **Learning MATLAB**

Walter Gander, 2015-11-21 This comprehensive and stimulating introduction to Matlab a computer language now widely used for technical computing is based on an introductory course held at Qian Weichang College Shanghai University in the fall of 2014 Teaching and learning a substantial programming language aren't always straightforward tasks Accordingly this textbook is not meant to cover the whole range of this high performance technical programming environment but to motivate first and second year undergraduate students in mathematics and computer science to learn Matlab by studying representative problems developing algorithms and programming them in Matlab While several topics are taken from the field of scientific computing the main emphasis is on programming A wealth of examples are completely discussed and solved allowing students to learn Matlab by doing by solving problems comparing approaches and assessing the proposed solutions

Matrix Theory with Applications Jack Leonard Goldberg, 1991 This course generally called Linear Algebra is usually taught in mathematics departments as a service course for engineers While there is no real prerequisite other than algebra students will need a calculus of differential equations background to appreciate this course

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