

# Project One Template

## MAT350: Applied Linear Algebra

*Student Name : Binuki Wimalasoma*

*Date : 9/18/2022*

### Problem 1

Develop a system of linear equations for the network by writing an equation for each router (A, B, C, D, and E). Make sure to write your final answer as  $Ax=b$  where  $A$  is the  $5 \times 5$  coefficient matrix,  $x$  is the  $5 \times 1$  vector of unknowns, and  $b$  is a  $5 \times 1$  vector of constants.

**Solution:**

$$\text{Node A} = 2x_1 + x_2 = 100$$

$$\text{Node B} = x_1 + x_2 - x_3 - x_5 = 0$$

$$\text{Node C} = x_1 - x_3 - x_5 = 50$$

$$\text{Node D} = -x_2 + x_4 + x_5 = 120$$

$$\text{Node E} = x_2 + x_3 - x_4 + x_5 = 0$$

$$Ax = b$$

$$A = [2 \ 1 \ 0 \ 0 \ 0; \ 1 \ 1 \ -1 \ 0 \ -1; \ -1 \ 0 \ 1 \ 0 \ 1; \ 0 \ -1 \ 0 \ 1 \ 1; \ 0 \ 1 \ 1 \ -1 \ 1]$$

$$x = [x_1; x_2; x_3; x_4; x_5]$$

$$b = [100; 0; 50; 120; 0]$$

### Problem 2

Use MATLAB to construct the augmented matrix  $[A \ b]$  and then perform row reduction using the `rref()` function. Write out your **reduced matrix and identify the free and basic variables of the system.**

**Solution:**

$$A = [2 \ 1 \ 0 \ 0 \ 0; \ 1 \ 1 \ -1 \ 0 \ -1; \ -1 \ 0 \ 1 \ 0 \ 1; \ 0 \ -1 \ 0 \ 1 \ 1; \ 0 \ 1 \ 1 \ -1 \ 1]$$

$$A = \begin{bmatrix} 2 & 1 & 0 & 0 & 0 \\ 1 & 1 & -1 & 0 & -1 \\ -1 & 0 & 1 & 0 & 1 \\ 0 & -1 & 0 & 1 & 1 \\ 0 & 1 & 1 & -1 & 1 \end{bmatrix}$$

$$b = [100; 0; 50; 120; 0]$$

$$b = \begin{bmatrix} 100 \\ 0 \\ 50 \\ 120 \\ 0 \end{bmatrix}$$

# Matlab Project For Linear Algebra

**Alexandre Maniçoba De Oliveira**



## **Matlab Project For Linear Algebra:**

The MATLAB Project Book for Linear Algebra Rick L. Smith,1997      **Exploring Linear Algebra** Crista Arangala,2014-11-13 Exploring Linear Algebra Labs and Projects with Mathematica is a hands on lab manual for daily use in the classroom Each lab includes exercises theorems and problems that guide your students on an exploration of linear algebra The exercises section integrates problems technology Mathematica visualization and Mathematica CDFs enabling students to discover the theory and applications of linear algebra in a meaningful way The theorems and problems section presents the theoretical aspects of linear algebra Students are encouraged to discover the truth of each theorem and problem to move toward proving or disproving each statement and to present their results to their peers Each chapter also contains a project set consisting of application driven projects that emphasize the material in the chapter Students can use these projects as the basis for further undergraduate research      **Matlab Linear Algebra Manual and Lab Projects T/a Elementary Linear Algebra, Applications Version 11E** Anton,2014-03-21      Understanding Linear Algebra Using MATLAB Erwin Kleinfeld,Margaret Kleinfeld,2001 For courses in Introductory Linear Algebra This book focuses on providing projects and problem sets and the MATLAB code needed to solve these materials      **Project Impact - Disseminating Innovation in Undergraduate Education** Ann McNeal,1998-02 Contains abstracts of innovative projects designed to improve undergraduate education in science mathematics engineering and technology Descriptions are organized by discipline and include projects in astronomy biology chemistry computer science engineering geological sciences mathematics physics and social sciences as well as a selection of interdisciplinary projects Each abstract includes a description of the project published and other instructional materials additional products of the project and information on the principal investigator and participating institutions      *Modern Matrix Algebra* David Ross Hill,Bernard Kolman,2001 A recapitulation of his earlier work *Seeds of Contemplation* this collection of sixteen essays plumbs aspects of human spirituality Merton addresses those in search of enduring values fulfillment and salvation in prose that is as always inspiring and compassionate A stimulating series of spiritual reflections which will prove helpful for all struggling to live the richest fullest and noblest life Chicago Tribune      **Accelerating MATLAB Performance** Yair M. Altman,2014-12-11 The MATLAB programming environment is often perceived as a platform suitable for prototyping and modeling but not for serious applications One of the main complaints is that MATLAB is just too slow Accelerating MATLAB Performance aims to correct this perception by describing multiple ways to greatly improve MATLAB program speed Packed with thousands of helpful tips it leaves no stone unturned discussing every aspect of MATLAB Ideal for novices and professionals alike the book describes MATLAB performance in a scale and depth never before published It takes a comprehensive approach to MATLAB performance illustrating numerous ways to attain the desired speedup The book covers MATLAB CPU and memory profiling and discusses various tradeoffs in performance tuning It describes both the application of standard industry techniques in

MATLAB as well as methods that are specific to MATLAB such as using different data types or built in functions The book covers MATLAB vectorization parallelization implicit and explicit optimization memory management chunking and caching It explains MATLAB s memory model and details how it can be leveraged It describes the use of GPU MEX FPGA and other forms of compiled code as well as techniques for speeding up deployed applications It details specific tips for MATLAB GUI graphics and I O It also reviews a wide variety of utilities libraries and toolboxes that can help to improve performance Sufficient information is provided to allow readers to immediately apply the suggestions to their own MATLAB programs Extensive references are also included to allow those who wish to expand the treatment of a particular topic to do so easily Supported by an active website and numerous code examples the book will help readers rapidly attain significant reductions in development costs and program run times

**Abstracts of Papers Presented to the American Mathematical Society**  
American Mathematical Society,2003

*A Course in Ordinary Differential Equations* Stephen A. Wirkus,Randall J. Swift,2006-10-23 The first contemporary textbook on ordinary differential equations ODEs to include instructions on MATLAB Mathematica and Maple

*A Course in Ordinary Differential Equations* focuses on applications and methods of analytical and numerical solutions emphasizing approaches used in the typical engineering physics or mathematics student s field o

*MAA Notes* ,1983

**Advanced Linear Algebra for Engineers with MATLAB** Sohail A. Dianat,Eli Saber,2017-12-19 Arming readers with both theoretical and practical knowledge *Advanced Linear Algebra for Engineers with MATLAB* provides real life problems that readers can use to model and solve engineering and scientific problems in fields ranging from signal processing and communications to electromagnetics and social and health sciences Facilitating a unique understanding of rapidly evolving linear algebra and matrix methods this book Outlines the basic concepts and definitions behind matrices matrix algebra elementary matrix operations and matrix partitions describing their potential use in signal and image processing applications Introduces concepts of determinants inverses and their use in solving linear equations that result from electrical and mechanical type systems Presents special matrices linear vector spaces and fundamental principles of orthogonality using an appropriate blend of abstract and concrete examples and then discussing associated applications to enhance readers visualization of presented concepts Discusses linear operators eigenvalues and eigenvectors and explores their use in matrix diagonalization and singular value decomposition Extends presented concepts to define matrix polynomials and compute functions using several well known methods such as Sylvester s expansion and Cayley Hamilton Introduces state space analysis and modeling techniques for discrete and continuous linear systems and explores applications in control and electromechanical systems to provide a complete solution for the state space equation Shows readers how to solve engineering problems using least square weighted least square and total least square techniques Offers a rich selection of exercises and MATLAB assignments that build a platform to enhance readers understanding of the material Striking the appropriate balance between theory and real life applications this book provides both advanced

students and professionals in the field with a valuable reference that they will continually consult

**Teaching and Learning Mathematics Online** James P. Howard, II, John F. Beyers, 2020-05-10 Online education has become a major component of higher education worldwide In mathematics and statistics courses there exists a number of challenges that are unique to the teaching and learning of mathematics and statistics in an online environment These challenges are deeply connected to already existing difficulties related to math anxiety conceptual understanding of mathematical ideas communicating mathematically and the appropriate use of technology Teaching and Learning Mathematics Online bridges these issues by presenting meaningful and practical solutions for teaching mathematics and statistics online It focuses on the problems observed by mathematics instructors currently working in the field who strive to hone their craft and share best practices with our professional community The book provides a set of standard practices improving the quality of online teaching and the learning of mathematics Instructors will benefit from learning new techniques and approaches to delivering content Features Based on the experiences of working educators in the field Assimilates the latest technology developments for interactive distance education Focuses on mathematical education for developing early mathematics courses

Anais Do Workshop De Micro-ondas Alexandre Maniçoba De Oliveira, 2025-05-18 Este livro a compila o de todos os artigos que foram apresentados no LBX WMO 24 XVI Workshop de Micro ondas do Laborat rio Maxwell em outubro de 2024 estando dispon veis para consulta digital pelo endere o <https://anais.wmo.labmax.org>

**Notices of the American Mathematical Society** American Mathematical Society, 1994

*Exploring Linear Algebra* Crista Arangala, 2025 This text focuses on the primary topics in a first course in Linear Algebra The author includes additional advanced topics related to data analysis singular value decomposition and connections to differential equations This is a lab text that would lead a class through Linear Algebra using Mathematica R demonstrations and Mathematica R coding The book includes interesting examples embedded in the projects Examples include the discussions of Lights Out Nim the Hill Cipher and a variety of relevant data science projects The 2nd Edition contains Additional Theorems and Problems for students to prove disprove these act as theory exercises at the end of most sections of the text Additional sections that support Data Analytics techniques such as Kronecker sums and products and LU decomposition of the Vandermonde matrix Updated and expanded end of chapter projects Instructors and students alike have enjoyed this popular book as it offers the opportunity to add Mathematica R to the Linear Algebra course I would definitely use the book specifically the projects at the end of each section to motivate undergraduate research Nick Luke North Carolina A T State University

Linear Algebra and Matrix Computations with MATLAB® Dingyü Xue, 2020-03-23 This book focuses the solutions of linear algebra and matrix analysis problems with the exclusive use of MATLAB The topics include representations fundamental analysis transformations of matrices matrix equation solutions as well as matrix functions Attempts on matrix and linear algebra applications are also explored

Mathematics Catalog 2005 Neil Thomson, 2004-10

*Cornell University Courses of Study* Cornell University, 2007

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