

# Project One Template

## MAT350: Applied Linear Algebra

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### 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

**Stephen A. Wirkus, Randall J. Swift**



## 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      **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      **Handbook of Linear Algebra** Leslie Hogben, 2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessible      *Matlab Linear Algebra Manual and Lab Projects T/a Elementary Linear Algebra, Applications Version 11E* Anton, 2014-03-21      *Applied Linear Algebra and Matrix Analysis* Thomas S. Shores, 2007-03-12 This book is about matrix and linear algebra and their applications For many students the tools of matrix and linear algebra will be as fundamental in their professional work as the tools of calculus thus it is important to ensure that students appreciate the utility and beauty of these subjects as well as the mechanics To this end applied mathematics and mathematical modeling ought to have an important role in an introductory treatment of linear algebra In this way students see that concepts of matrix and linear algebra make concrete problems workable In this book we weave significant motivating examples into the fabric of the text I hope that instructors will not omit this material that would be a missed opportunity for linear algebra The text has a strong orientation toward numerical computation and applied mathematics which means that matrix analysis plays a central role All three of the basic components of linear algebra theory computation and applications receive their due The proper balance of these components gives students the tools they need as well as the motivation to acquire these tools Another feature of this text is an emphasis on linear algebra as an experimental science this emphasis is found in certain examples computer exercises and projects Contemporary mathematical software make ideal labs for mathematical experimentation Nonetheless this text is independent of specific hardware and software platforms Applications and ideas should take center stage not software      **Linear Algebra** Richard C. Penney, 2021-01-07 Praise for the Third Edition This volume is ground breaking in

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**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

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mathematics student's field of

**Matrix Theory** Robert Piziak, P.L. Odell, 2007-02-22 In 1990 the National Science Foundation recommended that every college mathematics curriculum should include a second course in linear algebra. In answer to this recommendation *Matrix Theory: From Generalized Inverses to Jordan Form* provides the material for a second semester of linear algebra that probes introductory linear algebra concepts while also exploring topics not typically covered in a sophomore level class. Tailoring the material to advanced undergraduate and beginning graduate students, the authors offer instructors flexibility in choosing topics from the book. The text first focuses on the central problem of linear algebra: solving systems of linear equations. It then discusses LU factorization, derives Sylvester's rank formula, introduces full rank factorization, and describes generalized inverses. After discussions on norms, QR factorization, and orthogonality, the authors prove the important spectral theorem. They also highlight the primary decomposition theorem, Schur's triangularization theorem, singular value decomposition, and the Jordan canonical form theorem. The book concludes with a chapter on multilinear algebra. With this classroom-tested text, students can delve into elementary linear algebra ideas at a deeper level and prepare for further study in matrix theory and abstract algebra.

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**Computational Neuroscience and Cognitive Modelling** Britt Anderson, 2014-01-08 For the neuroscientist or psychologist who cringes at the sight of mathematical formulae and whose eyes glaze over at terms like differential equations, linear algebra, vectors, matrices, Bayes' rule, and Boolean logic, this book just might be the therapy needed. Anjan Chatterjee, Professor of Neurology, University of Pennsylvania, provides a gentle introduction to computational aspects of psychological science, managing to respect the reader's intelligence while also being completely unintimidating. Using carefully selected computational demonstrations, he guides students through a wide array of important approaches and tools with little in the way of prerequisites. I recommend it with enthusiasm.

Asohan Amarasingham, The City University of New York This unique, self-contained and accessible textbook provides an introduction to computational modelling of neuroscience, accessible to readers with little or no background in computing or mathematics. Organized into thematic sections, the book spans from modelling integrate and fire neurons to playing the game Rock Paper Scissors in ACT-R. This non-technical guide shows how basic knowledge and modern computers can be combined for interesting simulations, progressing from early exercises utilizing spreadsheets to simple programs in Python. Key features include interleaved chapters that show how traditional computing constructs are simply disguised versions of the spreadsheet methods. Mathematical facts and notation needed to understand the modelling methods are presented at their most basic and are interleaved with biographical and

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**A Course in Differential Equations with Boundary Value Problems** Stephen A. Wirkus, Randall J. Swift, Ryan Szykowski, 2017-01-24 A Course in Differential Equations with Boundary Value Problems 2nd Edition adds additional content to the author's successful A Course on Ordinary Differential Equations 2nd Edition This text addresses the need when the course is expanded The focus of the text is on applications and methods of solution both analytical and numerical with emphasis on methods used in the typical engineering physics or mathematics student's field of study The text provides sufficient problems so that even the pure math major will be sufficiently challenged The authors offer a very flexible text to meet a variety of approaches including a traditional course on the topic The text can be used in courses when partial

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