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 5x5 coefficient matrix, **x** is the 5x1 vector of unknowns, and **b** is a 5x1 vector of constants.

Solution:

Node A = $2x1 + x2 = 100$

Node B = $x1 + x2 - x3 - x5 = 0$

Node C = $x1 - x3 - x5 = 50$

Node D = $-x2 + x4 + x5 = 120$

Node E = $x2 + x3 - x4 + x5 = 0$

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 = [x1; x2; x3; x4; x5]

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 = 5×5
    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
```

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

b = 5×1
  100
    0
```

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Crista Arangala

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   *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 accessibl   **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   *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 signi cant 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 l ear 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 speci c hardware and software pl forms 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

terms of mathematical texts in that it does not teach from a detached perspective but instead looks to show students that competent mathematicians bring an intuitive understanding to the subject rather than just a master of applications Electric Review Learn foundational and advanced topics in linear algebra with this concise and approachable resource A comprehensive introduction Linear Algebra Ideas and Applications Fifth Edition provides a discussion of the theory and applications of linear algebra that blends abstract and computational concepts With a focus on the development of mathematical intuition the book emphasizes the need to understand both the applications of a particular technique and the mathematical ideas underlying the technique The book introduces each new concept in the context of explicit numerical examples which allows the abstract concepts to grow organically out of the necessity to solve specific problems The intuitive discussions are consistently followed by rigorous statements of results and proofs Linear Algebra Ideas and Applications Fifth Edition also features A new application section on section on Google s Page Rank Algorithm A new application section on pricing long term health insurance at a Continuing Care Retirement Community CCRC Many other illuminating applications of linear algebra with self study questions for additional study End of chapter summaries and sections with true false questions to aid readers with further comprehension of the presented material Numerous computer exercises throughout using MATLAB code Linear Algebra Ideas and Applications Fifth Edition is an excellent undergraduate level textbook for one or two semester undergraduate courses in mathematics science computer science and engineering With an emphasis on intuition development the book is also an ideal self study reference **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 **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 **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 **Linear Algebra with Applications** Steven J. Leon,1998 Renowned for its thoroughness and accessibility this best selling text by one of the leading figures in linear algebra reform offers students a challenging yet enjoyable study of linear algebra that is infused with an abundance of applications Balancing coverage of mathematical theory and applied topics it takes extra care in explaining concepts clearly so that students at a variety of levels can read and understand the material Numerous worked examples are integrated throughout the text This revision stresses the important roles played by geometry and visualization in linear algebra ATLAST Computer Exercises for Linear Algebra a project manual using MATLAB may be packaged free with the text Gareth Williams,2007-08-17 Linear Algebra with Applications Sixth Edition is designed for the introductory course in linear algebra typically offered at the sophomore level The new Sixth Edition is reorganized and arranged into three important parts Part 1 introduces the basics presenting the systems of linear equations vectors in Rn matrices linear transformations and determinants Part 2 builds on this material to discuss general vector spaces such as spaces of matrices and functions Part 3 completes the course with many of the important ideas and methods in Numerical Linear Algebra such as ill conditioning pivoting and the LU decomposition New applications include the role of linear algebra in the operation of the search engine Google and the global structure of the worldwide air transportation network have been added as a means of presenting real world scenarios of the many functions of linear algebra in modern technology Clear Concise Comprehensive Linear Algebra with Applications Sixth Edition continues to educate and enlighten students providing a broad exposure to the many facets of the field *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 *Infusing Undergraduate Research into Historically Black Colleges and Universities Curricula* Jeton McClinton,Mark A. Melton,Caesar R. Jackson,Kimarie Engerman,2015-11-06 Undergraduate Research is any effort undertaken by an undergraduate that advances their academic knowledge and leads to new scholarly insights This volume tells the story of undergraduate research programs at Historically Black Colleges and Universities from the voices of faculty mentors student mentees and UGR program directors and coordinators **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 Anderson 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 neuroscience accessible to readers with little or no background in computing or mathematics Organized into thematic sections the book spans from modelling integrate and firing 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 spread sheet methods Mathematical facts and notation needed to understand the modelling methods are presented at their most basic and are interleaved with biographical and historical notes for contex Numerous worked examples to demonstrate the themes and procedures of cognitive modelling An excellent text for postgraduate students taking courses in research methods computational neuroscience computational modelling cognitive science and neuroscience It will be especially valuable to psychology students **A Course in Differential Equations with Boundary Value**

Problems Stephen A. Wirkus,Randall J. Swift,Ryan Szypowski,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 differential equations replaces Laplace transforms There is sufficient linear algebra in the text so that it can be used for a course that combines differential equations and linear algebra Most significantly computer labs are given in MATLAB Mathematica and MapleTM The book may be used for a course to introduce and equip the student with a knowledge of the given software Sample course outlines are included Features MATLAB Mathematica and MapleTM are incorporated at the end of each chapter All three software packages have parallel code and exercises There are numerous problems of varying difficulty for both the applied and pure math major as well as problems for engineering physical science and other students An appendix that gives the reader a crash course in the three software packages Chapter reviews at the end of each chapter to help the students review Projects at the end of each chapter that go into detail about certain topics and introduce new topics that the students are now ready to see Answers to most of the odd problems in the back of the book *Low Rank Approximation* Ivan Markovsky,2011-11-19 Data Approximation by Low complexity Models details the theory algorithms and applications of structured low rank approximation Efficient local optimization methods and effective suboptimal convex relaxations for Toeplitz Hankel and Sylvester structured problems are presented Much of the text is devoted to describing the applications of the theory including system and control theory signal processing computer algebra for approximate factorization and common divisor computation computer vision for image deblurring and segmentation machine learning for information retrieval and clustering bioinformatics for microarray data analysis chemometrics for multivariate calibration and psychometrics for factor analysis Software implementation of the methods is given making the theory directly applicable in practice All numerical examples are included in demonstration files giving hands on experience and exercises and MATLAB examples assist in the assimilation of the theory Teaching Mathematics Through Cross-Curricular Projects Elizabeth A. Donovan,Lucas A. Hoots,Lesley W. Wiglesworth,2024-07-22 This book offers engaging cross curricular modules to supplement a variety of pure mathematics courses Developed and tested by college instructors each activity or project can be integrated into an instructor s existing class to illuminate the relationship between pure mathematics and other subjects Every chapter was carefully designed to promote active learning strategies The editors have diligently curated a volume of twenty six independent modules that cover topics from fields as diverse as cultural studies the arts civic engagement STEM topics and sports and games An easy to use reference table makes it straightforward

to find the right project for your class Each module contains a detailed description of a cross curricular activity as well as a list of the recommended prerequisites for the participating students The reader will also find suggestions for extensions to the provided activities as well as advice and reflections from instructors who field tested the modules Teaching Mathematics Through Cross Curricular Projects is aimed at anyone wishing to demonstrate the utility of pure mathematics across a wide selection of real world scenarios and academic disciplines Even the most experienced instructor will find something new and surprising to enhance their pure mathematics courses *Mathematical Concepts and Methods in Modern Biology* Raina Robeva,Terrell Hodge,2013-02-26 Mathematical Concepts and Methods in Modern Biology offers a quantitative framework for analyzing predicting and modulating the behavior of complex biological systems The book presents important mathematical concepts methods and tools in the context of essential questions raised in modern biology Designed around the principles of project based learning and problem solving the book considers biological topics such as neuronal networks plant population growth metabolic pathways and phylogenetic tree reconstruction The mathematical modeling tools brought to bear on these topics include Boolean and ordinary differential equations projection matrices agent based modeling and several algebraic approaches Heavy computation in some of the examples is eased by the use of freely available open source software Features self contained chapters with real biological research examples using freely available computational tools Spans several mathematical techniques at basic to advanced levels Offers broad perspective on the uses of algebraic geometry polynomial algebra in molecular systems biology **An Introduction to Number Theory with Cryptography** James Kraft,Lawrence Washington,2018-01-29 Building on the success of the first edition An Introduction to Number Theory with Cryptography Second Edition increases coverage of the popular and important topic of cryptography integrating it with traditional topics in number theory The authors have written the text in an engaging style to reflect number theory s increasing popularity The book is designed to be used by sophomore junior and senior undergraduates but it is also accessible to advanced high school students and is appropriate for independent study It includes a few more advanced topics for students who wish to explore beyond the traditional curriculum Features of the second edition include Over 800 exercises projects and computer explorations Increased coverage of cryptography including Vigenere Stream Transposition and Block ciphers along with RSA and discrete log based systems Check Your Understanding questions for instant feedback to students New Appendices on What is a proof and on Matrices Select basic pre RSA cryptography now placed in an earlier chapter so that the topic can be covered right after the basic material on congruences Answers and hints for odd numbered problems About the Authors Jim Kraft received his Ph D from the University of Maryland in 1987 and has published several research papers in algebraic number theory His previous teaching positions include the University of Rochester St Mary s College of California and Ithaca College and he has also worked in communications security Dr Kraft currently teaches mathematics at the Gilman School Larry Washington received his Ph D from Princeton University in 1974 and has published extensively in

number theory including books on cryptography with Wade Trappe cyclotomic fields and elliptic curves Dr Washington is currently Professor of Mathematics and Distinguished Scholar Teacher at the University of Maryland

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