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:

For each router we will write an equation for all of the incoming connections on one side, and the outgoing connections on the other side, then rewrite so that all of the variables are on one side and the constants are on the other side.

Router A has 100 Mbps incoming, and $2x_2$, and x_1 outgoing. $x_1 + 2x_2 = 100$

Router B has x_1 and x_2 incoming, and x_3 and x_3 outgoing. $x_3 + x_3 = x_1 + x_2$. Simplified for the matrix we get $-x_1 - x_2 + x_3 + x_5 = 0$

Router C has 50 Mbps incoming and x_2 incoming, then x_3 and x_5 outgoing. $x_3 + x_5 = x_2 + 50$ Simplified we get $-x_2 + x_3 + x_5 = 50$

Router D has x_4 and x_5 incoming, then x_2 and 120 Mbps outgoing. $x_2 + 120 = x_4 + x_5$ Simplified we get $x_2 - x_4 - x_5 = -120$

Router E has x_3, x_3 , and x_5 incoming, then x_4 outgoing, $x_4 = x_2 + x_3 + x_5$. Simplified we get $-x_2 - x_3 + x_4 - x_5 = 0$

The matrix can be formed by using Ax=b

$$\begin{bmatrix} 1 & 2 & 0 & 0 & 0 \\ -1 & -1 & 1 & 0 & 1 \\ 0 & -1 & 1 & 0 & 1 \\ 0 & 1 & 0 & -1 & -1 \\ 0 & -1 & -1 & 1 & -1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \\ x_5 \end{bmatrix} = \begin{bmatrix} 100 \\ 0 \\ 50 \\ -120 \\ 0 \end{bmatrix}$$

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.

1

Solution:

<u>Applied Linear Algebra And Linear Algebra Labs With</u> <u>Matlab</u>

John Gregg Lewis

Applied Linear Algebra And Linear Algebra Labs With Matlab:

Linear Algebra LABS with MATLAB David R. Hill, David E. Zitarelli, 1996 **Proceedings of the Fifth SIAM Conference on Applied Linear Algebra** John Gregg Lewis, 1994-01-01 Applied Abstract Algebra with MapleTM and MATLAB Richard Klima, Neil Sigmon, Ernest Stitzinger, 2015-11-18 Applied Abstract Algebra with MapleTM and MATLAB provides an in depth introduction to real world abstract algebraic problems This popular textbook covers a variety of topics including block designs coding theory cryptography and counting techniques including Polya s and Burnside s theorems The book also includes a concise review of all prereq Exploring Linear Algebra Crista Arangala, 2025-02-26 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 demonstrations and Mathematica 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 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 With Machine Learning and **Data** Crista Arangala, 2023-05-09 This book takes a deep dive into several key linear algebra subjects as they apply to data analytics and data mining The book offers a case study approach where each case will be grounded in a real world application This text is meant to be used for a second course in applications of Linear Algebra to Data Analytics with a supplemental chapter on Decision Trees and their applications in regression analysis The text can be considered in two different but overlapping general data analytics categories clustering and interpolation Knowledge of mathematical techniques related to data analytics and exposure to interpretation of results within a data analytics context are particularly valuable for students studying undergraduate mathematics Each chapter of this text takes the reader through several relevant case studies using real world data All data sets as well as Python and R syntax are provided to the reader through links to Github documentation Following each chapter is a short exercise set in which students are encouraged to use technology to apply their expanding knowledge of linear algebra as it is applied to data analytics A basic knowledge of the concepts in a first Linear Algebra course is assumed however an overview of key concepts is presented in the Introduction and as needed throughout the text 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 **Exploring Linear Algebra** Crista Arangala, 2019-03-07 Exploring Linear Algebra Labs and Projects with MATLAB is a hands on lab manual that can be used by students and instructors in classrooms every day to guide the exploration of the theory and applications of linear algebra For the most part labs discussed in the book can be used individually or in a sequence Each lab consists of an explanation of material with integrated exercises Some labs are split into multiple subsections and thus exercises are separated by those subsections. 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Linear Algebra with Applications Gareth Williams, 2011-08-24 Revised and edited Linear Algebra with Applications

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