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Chapter 4 Subspaces

4.1 Practice Problems

1. (a) Not a subspace. The vector $0 = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$ is not in the set.

- (b) Let S be the set of vectors of the form $\begin{bmatrix} a-b \\ -2a \end{bmatrix}$. Letting $a = 0$ and $b = 0$, we see that $0 \in S$. Suppose u and v are in S , then $u = \begin{bmatrix} a_1-b_1 \\ -2a_1 \end{bmatrix}$ and $v = \begin{bmatrix} a_2-b_2 \\ -2a_2 \end{bmatrix}$. Thus $u+v = \begin{bmatrix} a_1-b_1 \\ -2a_1 \end{bmatrix} + \begin{bmatrix} a_2-b_2 \\ -2a_2 \end{bmatrix} = \begin{bmatrix} (a_1+a_2)-(b_1+b_2) \\ -2(a_1+a_2) \end{bmatrix} \in S$. Let $r \in \mathbb{R}$ and $u \in S$, then $ru = r \begin{bmatrix} a_1-b_1 \\ -2a_1 \end{bmatrix} = \begin{bmatrix} (ra_1)-(rb_1) \\ -2(ra_1) \end{bmatrix} \in S$, and we conclude that S is a subspace. (Alternatively, we have $S = \text{span} \left\{ \begin{bmatrix} 1 \\ -2 \end{bmatrix}, \begin{bmatrix} 0 \\ 0 \end{bmatrix} \right\}$, and thus S is a subspace.)

2. (a) We row-reduce

$$\begin{bmatrix} 1 & 3 & -2 \\ 3 & 0 & -4 \end{bmatrix} \sim \begin{bmatrix} 1 & 3 & -2 \\ 0 & -9 & 2 \end{bmatrix}.$$

Thus, $Ax = 0$ has solutions of the form

$$x = s \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix} + t \begin{bmatrix} 2 \\ 0 \\ 9 \end{bmatrix}.$$

Holt Linear Algebra With Applications Solutions

Dennis Chester Smolarski



Holt Linear Algebra With Applications Solutions:

Study Guide with Selected Solutions for Linear Algebra with Applications Jeffrey Holt, 2013-04-19 The Study Guide with Student Solutions to accompany Linear Algebra with Applications by Jeffrey Holt includes resources for students and solutions to selected exercises in the book

Student Solutions Manual for Linear Algebra with Applications Jeffrey Holt, 2016-12-15 Linear Algebra with Applications Jeffrey Holt, 2013-04-01 Many students of linear algebra hit a wall at mid semester Having spent the first part of the term doing mostly computational work they are unprepared for the rigors of conceptual thinking in an abstract setting that is frequently the focus of the second half of the course Holt's Linear Algebra with Applications blends computational and conceptual topics throughout Early treatment of conceptual topics in the context of Euclidean space gives students more time and a familiar setting in which to absorb them This organization also makes it possible to treat eigenvalues and eigenvectors earlier than in most texts Abstract vector spaces are introduced later once students have developed a solid conceptual foundation Concepts and topics are frequently accompanied by applications to provide context and motivation Because many students learn by example Linear Algebra with Applications provides a large number of representative examples over and above those used to introduce topics The text also has over 2500 exercises covering computational and conceptual topics over a range of difficulty levels

Linear Algebra with Applications Steven J. Leon, 1990

Generalized Sylvester Equations Guang-Ren Duan, 2015-06-09 Provides One Unified Formula That Gives Solutions to Several Types of GSEs Generalized Sylvester equations GSEs are applied in many fields including applied mathematics systems and control and signal processing Generalized Sylvester Equations Unified Parametric Solutions presents a unified parametric approach for solving various types of GSEs

Linear Algebra with Applications Williams, Linear Algebra with Applications Otto Bretscher, 2001 *Ssg- Linear Algebra with Applications 6e Student Sol Man*

Williams, Angela Aprn Edd(c), 2007-08-24

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Matrices and Linear Algebra Hans Schneider, George Phillip Barker, 2012-06-08 Basic textbook covers theory of matrices and its applications to systems of linear equations and related topics such as determinants eigenvalues and differential equations Includes numerous exercises

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MATRIX AND LINEAR ALGEBRA AIDED WITH MATLAB, Third Edition Kanti Bhushan Datta,2016-12-01 With the inclusion of applications of singular value decomposition SVD and principal component analysis PCA to image compression and data analysis this edition provides a strong foundation of linear algebra needed for a higher study in signal processing The use of MATLAB in the study of linear algebra for a variety of computational purposes and the programmes provided in this text are the most attractive features of this book which strikingly distinguishes it from the existing linear algebra books needed as pre requisites for the study of engineering subjects This book is highly suitable for undergraduate as well as postgraduate students of mathematics statistics and all engineering disciplines The book will also be useful to Ph D students for relevant mathematical resources NEW TO THIS EDITION The Third Edition of this book includes Simultaneous diagonalization of two diagonalizable matrices Comprehensive exposition of SVD with applications in shear analysis in engineering Polar Decomposition of a matrix Numerical experimentation with a colour and a black and white image compression using MATLAB PCA methods of data analysis and image compression with a list of MATLAB codes

Linear Algebra, Rational Approximation and Orthogonal Polynomials A. Bultheel,M. Van Barel,1997-11-17 Evolving from an elementary discussion this book develops the Euclidean algorithm to a very powerful tool to deal with general continued fractions non normal Pad tables look ahead algorithms for Hankel and Toeplitz matrices and for Krylov subspace methods It introduces the basics of fast algorithms for structured problems and shows how they deal with singular situations Links are made with more applied subjects such as linear system theory and signal processing and with more advanced topics and recent results such as general bi orthogonal polynomials minimal Pad approximation polynomial root location problems in the complex plane very general rational interpolation problems and the lifting scheme for wavelet transform computation The text serves as a supplement to existing books on structured linear algebra problems rational approximation and orthogonal polynomials Features of this book provides a unifying approach to linear algebra rational approximation and orthogonal polynomials requires an elementary knowledge of calculus and linear algebra yet introduces advanced topics The book will be of interest to applied mathematicians and engineers and to students and researchers

Applications of Linear Algebra Dennis DeTurck,Howard Anton,Chris Rorres,1979

Set Anton,2014-06-17

Linear Algebra ,1987

A Course in Linear Algebra with Applications Derek John Scott Robinson,1992 This solution booklet is a supplement to the book *A Course in Linear Algebra with Applications* It will be useful to lecturers and to students taking the subject since it contains complete solutions to all 283 exercises in the book

Linear Algebra, Textbook and Solutions Manual Richard C. Penney,2005-09-30 A student oriented approach to linear algebra now in its Second Edition This introductory level linear algebra text is for students who require a clear understanding of key algebraic concepts and their applications in such fields

as science engineering and computer science The text utilizes a parallel structure that introduces abstract concepts such as linear transformations eigenvalues vector spaces and orthogonality in tandem with computational skills thereby demonstrating clear and immediate relations between theory and application Important features of the Second Edition include Gradual development of vector spaces Highly readable proofs Conceptual exercises Applications sections for self study Early orthogonality option Numerous computer projects using MATLAB and Maple **Optimum Semi-iterative Methods for the Solution of Any Linear Algebraic System with a Square Matrix** Dennis Chester Smolarski,1981

Elementary Linear Algebra with Applications, Student Solutions Manual Howard Anton,Chris Rorres,2006-02-03 This classic treatment of linear algebra presents the fundamentals in the clearest possible way examining basic ideas by means of computational examples and geometrical interpretation It proceeds from familiar concepts to the unfamiliar from the concrete to the abstract Readers consistently praise this outstanding text for its expository style and clarity of presentation The applications version features a wide variety of interesting contemporary applications Clear accessible step by step explanations make the material crystal clear Established the intricate thread of relationships between systems of equations matrices determinants vectors linear transformations and eigenvalues

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