

Exam 2: Mathematics for Engineers  
 First 20 Questions

Answer all questions

Maximum possible score: 100 marks

Section 1

Backup your answers

- (a) (i) Calculate the matrix product  $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$   
 (ii) Hence find all solutions for the system of linear equations

$$\begin{aligned} 2x_1 + 3x_2 + 4x_3 &= 10 \\ x_1 + 2x_2 + 3x_3 &= 8 \\ x_1 + x_2 + x_3 &= 3 \end{aligned}$$

- (b) Give a geometric interpretation of the elements of  $\mathbb{R}^3$  that correspond to the points on the line  $x_1 = 1$  in the three-dimensional space.

- (c) Give a geometric interpretation of  $\left\{ \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + t \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} : t \in \mathbb{R} \right\}$ .

- (d) (i) Suppose now, the set  $A = \left\{ \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + t \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} : t \in \mathbb{R} \right\}$  is not a subspace of  $\mathbb{R}^3$   
 (ii) Suppose now, the set  $B = \left\{ \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + t \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} + s \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} : t, s \in \mathbb{R} \right\}$  is not a subspace of  $\mathbb{R}^3$

- (e) Prove that the set  $C = \left\{ \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix} + t \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} + s \begin{pmatrix} 0 \\ 0 \\ 1 \end{pmatrix} : t, s \in \mathbb{R} \right\}$  is a subspace of  $\mathbb{R}^3$

- (f) Determine whether or not the matrix  $\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$  has all real eigenvalues, calculate all the eigenvalues

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- (g) Study the two following systems in the unknown four variables, from all the suggested methods the belonging to a system of linear equations by the variables  $x_1, x_2, x_3, x_4$  of the particular  $x_1 = 1, x_2 = 0, x_3 = 0, x_4 = 0$  in part (a). Hence the systems are represented by the matrices  $A$  and  $B$   
 For the homogeneous system, determining the solutions in the domain  $\mathbb{R}^4$  without using the suggested method for solution of the system represented above

$$A = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{pmatrix}$$

$$B = \begin{pmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{pmatrix}$$

# Jking Mathematic Linear 1380

**Arturo Cuomo**



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have been added More examples exercises and more on the kernel and general linear spaces A list of applications has been added in Appendix A The book gives instructors the option of tailoring the course for the primary interests of their students mathematics engineering science computer graphics and geometric modeling **Linearity and the Mathematics of Several Variables** Stephen A. Fulling, Michael N. Sinyakov, Sergei V. Tischchenko, 2000 Neither a list of theorems and proofs nor a recipe for elementary matrix calculations this textbook acquaints the student of applied mathematics with the concepts of linear algebra why they are useful and how they are used As each concept is introduced it is applied to multivariable calculus or differential equations extending and consolidating the student's understanding of those subjects in the process

**Practical Linear Algebra** Gerald Farin, Dianne Hansford, 2015-09-15 Through many examples and real world applications Practical Linear Algebra A Geometry Toolbox Third Edition teaches undergraduate level linear algebra in a comprehensive geometric and algorithmic way Designed for a one semester linear algebra course at the undergraduate level the book gives instructors the option of tailoring the course for the primary interests math engineering science computer graphics and geometric modeling New to the Third Edition More exercises and applications Coverage of singular value decomposition and its application to the pseudoinverse principal components analysis and image compression More attention to eigen analysis including eigenfunctions and the Google matrix Greater emphasis on orthogonal projections and matrix decompositions which are tied to repeated themes such as the concept of least squares To help students better visualize and understand the material the authors introduce the fundamental concepts of linear algebra first in a two dimensional setting and then revisit these concepts and others in a three dimensional setting They also discuss higher dimensions in various real life applications Triangles polygons conics and curves are introduced as central applications of linear algebra Instead of using the standard theorem proof approach the text presents many examples and instructional illustrations to help students develop a robust intuitive understanding of the underlying concepts The authors website also offers the illustrations for download and includes Mathematica code and other ancillary materials *Elements of Linear Algebra* P.M.

Cohn, 1994-07-01 This volume presents a thorough discussion of systems of linear equations and their solutions Vectors and matrices are introduced as required and an account of determinants is given Great emphasis has been placed on keeping the presentation as simple as possible with many illustrative examples While all mathematical assertions are proved the student is led to view the mathematical content intuitively as an aid to understanding The text treats the coordinate geometry of lines planes and quadrics provides a natural application for linear algebra and at the same time furnished a geometrical interpretation to illustrate the algebraic concepts **Linear Algebra** Theodore Shifrin, Malcolm Adams, 2002 Introducing students to a subject that lies at the foundations of modern mathematics physics statistics and many other disciplines Linear Algebra A Geometric Approach appeals to science and engineering students as well as mathematics students making the transition to more abstract advanced courses One of the goals of this text is to help students learn to think about

mathematical concepts and to write rigorous mathematical arguments The authors do not presuppose any exposure to vectors or vector algebra and only a passing acquaintance with the derivative and integral is required for certain optional topics Linear Algebra First Edition is now available exclusively at CourseSmart as a digital eTextbook **Principles of Linear Algebra with Mathematica** Kenneth M. Shiskowski, Karl Frinkle, 2013-06-07 A hands on introduction to the theoretical and computational aspects of linear algebra using Mathematica Many topics in linear algebra are simple yet computationally intensive and computer algebra systems such as Mathematica are essential not only for learning to apply the concepts to computationally challenging problems but also for visualizing many of the geometric aspects within this field of study Principles of Linear Algebra with Mathematica uniquely bridges the gap between beginning linear algebra and computational linear algebra that is often encountered in applied settings and the commands required to solve complex and computationally challenging problems using Mathematica are provided The book begins with an introduction to the commands and programming guidelines for working with Mathematica Next the authors explore linear systems of equations and matrices applications of linear systems and matrices determinants inverses and Cramer s rule Basic linear algebra topics such as vectors dot product cross product and vector projection are explored as well as a unique variety of more advanced topics including rotations in space rolling a circle along a curve and the TNB Frame Subsequent chapters feature coverage of linear transformations from  $\mathbb{R}^n$  to  $\mathbb{R}^m$  the geometry of linear and affine transformations with an exploration of their effect on arclength area and volume least squares fits and pseudoinverses Mathematica is used to enhance concepts and is seamlessly integrated throughout the book through symbolic manipulations numerical computations graphics in two and three dimensions animations and programming Each section concludes with standard problems in addition to problems that were specifically designed to be solved with Mathematica allowing readers to test their comprehension of the presented material All related Mathematica code is available on a corresponding website along with solutions to problems and additional topical resources Extensively class tested to ensure an accessible presentation Principles of Linear Algebra with Mathematica is an excellent book for courses on linear algebra at the undergraduate level The book is also an ideal reference for students and professionals who would like to gain a further understanding of the use of Mathematica to solve linear algebra problems

Introduction to Applied Linear Algebra Stephen Boyd, Lieven Vandenbergh, 2018-06-07 This groundbreaking textbook combines straightforward explanations with a wealth of practical examples to offer an innovative approach to teaching linear algebra Requiring no prior knowledge of the subject it covers the aspects of linear algebra vectors matrices and least squares that are needed for engineering applications discussing examples across data science machine learning and artificial intelligence signal and image processing tomography navigation control and finance The numerous practical exercises throughout allow students to test their understanding and translate their knowledge into solving real world problems with lecture slides additional computational exercises in Julia and MATLAB and data sets accompanying the book online Suitable

for both one semester and one quarter courses as well as self study this self contained text provides beginning students with the foundation they need to progress to more advanced study

**An Introduction to Linear Algebra and Tensors** M. A. Aklonis, V. V. Goldberg, 2012-07-25 Eminently readable completely elementary treatment begins with linear spaces and ends with analytic geometry covering multilinear forms tensors linear transformation and more 250 problems most with hints and answers 1972 edition

**An Introduction to Linear Algebra** Leonid Mirsky, 1990-01-01 The straight forward clarity of the writing is admirable American Mathematical Monthly This work provides an elementary and easily readable account of linear algebra in which the exposition is sufficiently simple to make it equally useful to readers whose principal interests lie in the fields of physics or technology The account is self contained and the reader is not assumed to have any previous knowledge of linear algebra Although its accessibility makes it suitable for non mathematicians Professor Mirsky's book is nevertheless a systematic and rigorous development of the subject Part I deals with determinants vector spaces matrices linear equations and the representation of linear operators by matrices Part II begins with the introduction of the characteristic equation and goes on to discuss unitary matrices linear groups functions of matrices and diagonal and triangular canonical forms Part II is concerned with quadratic forms and related concepts Applications to geometry are stressed throughout and such topics as rotation reduction of quadrics to principal axes and classification of quadrics are treated in some detail An account of most of the elementary inequalities arising in the theory of matrices is also included Among the most valuable features of the book are the numerous examples and problems at the end of each chapter carefully selected to clarify points made in the text

**Orthogonal Sets and Polar Methods in Linear Algebra** Enrique Castillo, Angel Cobo, Francisco Jubete, Rosa Eva Pruneda, 1999-02-22 A unique applied approach to problem solving in linear algebra Departing from the standard methods of analysis this unique book presents methodologies and algorithms based on the concept of orthogonality and demonstrates their application to both standard and novel problems in linear algebra Covering basic theory of linear systems linear inequalities and linear programming it focuses on elegant computationally simple solutions to real world physical economic and engineering problems The authors clearly explain the reasons behind the analysis of different structures and concepts and use numerous illustrative examples to correlate the mathematical models to the reality they represent Readers are given precise guidelines for Checking the equivalence of two systems Solving a system in certain selected variables Modifying systems of equations Solving linear systems of inequalities Using the new exterior point method Modifying a linear programming problem With few prerequisites but with plenty of figures and tables end of chapter exercises as well as Java and Mathematica programs available from the authors Web site this is an invaluable text reference for mathematicians engineers applied scientists and graduate students in mathematics

Linear Algebra in Action Harry Dym, 2013-12-31 Linear algebra permeates mathematics perhaps more so than any other single subject It plays an essential role in pure and applied mathematics statistics computer science and many aspects of physics and engineering This book conveys in a user

friendly way the basic and advanced techniques of linear algebra from the point of view of a working analyst The techniques are illustrated by a wide sample of applications and examples that are chosen to highlight the tools of the trade In short this is material that many of us wish we had been taught as graduate students Roughly the first third of the book covers the basic material of a first course in linear algebra The remaining chapters are devoted to applications drawn from vector calculus numerical analysis control theory complex analysis convexity and functional analysis In particular fixed point theorems extremal problems matrix equations zero location and eigenvalue location problems and matrices with nonnegative entries are discussed Appendices on useful facts from analysis and supplementary information from complex function theory are also provided for the convenience of the reader In this new edition most of the chapters in the first edition have been revised some extensively The revisions include changes in a number of proofs either to simplify the argument to make the logic clearer or on occasion to sharpen the result New introductory sections on linear programming extreme points for polyhedra and a Nevanlinna Pick interpolation problem have been added as have some very short introductory sections on the mathematics behind Google Drazin inverses band inverses and applications of SVD together with a number of new exercises



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