

Extension Exercise on Matrix Algebra : Solutions

Exercise One:

If $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ is any 2×2 matrix,

and A commutes with $X = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix}$

show that A has to be of the form:

$$A = \begin{bmatrix} a & b \\ 0 & a \end{bmatrix}$$

Solution:

$$AX = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix} = \begin{bmatrix} 0 & a \\ 0 & c \end{bmatrix}$$

$$XA = \begin{bmatrix} 0 & 1 \\ 0 & 0 \end{bmatrix} \begin{bmatrix} a & b \\ c & d \end{bmatrix} = \begin{bmatrix} c & d \\ 0 & 0 \end{bmatrix}$$

Since A commutes with X , $AX = XA$, so that

$$\begin{bmatrix} 0 & a \\ 0 & c \end{bmatrix} = \begin{bmatrix} c & d \\ 0 & 0 \end{bmatrix}$$

Equating entries gives: $0 = c$, $a = d$, $0 = 0$, $c = 0$

That is, $a = d$ and $c = 0$ (there is no condition on b)

Hence A is of the required form.

Exercise Two:

If $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ is any 2×2 matrix,

and A commutes with $X = \begin{bmatrix} 0 & 0 \\ 1 & 0 \end{bmatrix}$

show that A has to be of the form:

$$A = \begin{bmatrix} a & 0 \\ c & a \end{bmatrix}$$

Solution:

I'll leave this as an exercise for you as the working is very similar to that in exercise one. ■

Matrix Algebra Exercises And Solutions

Sandra Luna McCune, William D. Clark

Matrix Algebra Exercises And Solutions:

Matrix Algebra: Exercises and Solutions David A. Harville, 2011-06-27 This book comprises well over three hundred exercises in matrix algebra and their solutions. The exercises are taken from my earlier book *Matrix Algebra From a Statistician's Perspective*. They have been restated as necessary to make them comprehensible independently of their source. To further insure that the restated exercises have this stand alone property I have included in the front matter a section on terminology and another on notation. These sections provide definitions, descriptions, comments or explanatory material pertaining to certain terms and notational symbols and conventions from *Matrix Algebra From a Statistician's Perspective* that may be unfamiliar to a nonreader of that book or that may differ in generality or other respects from those to which he/she is accustomed. For example the section on terminology includes an entry for scalar and one for matrix. These are standard terms but their use herein and in *Matrix Algebra From a Statistician's Perspective* is restricted to real numbers and to rectangular arrays of real numbers whereas in various other presentations a scalar may be a complex number or more generally a member of a field and a matrix may be a rectangular array of such entities.

Matrix Algebra: Exercises and Solutions David A. Harville, 2001-09-06 This book contains over 300 exercises and solutions covering a wide variety of topics in matrix algebra. They can be used for independent study or in creating a challenging and stimulating environment that encourages active engagement in the learning process. Thus the book can be of value to both teachers and students. The requisite background is some previous exposure to matrix algebra of the kind obtained in a first course. The exercises are those from an earlier book by the same author entitled *Matrix Algebra From a Statistician's Perspective*. They have been restated as necessary to stand alone and the book includes extensive and detailed summaries of all relevant terminology and notation. The coverage includes topics of special interest and relevance in statistics and related disciplines as well as standard topics. The overlap with exercises available from other sources is relatively small. David A. Harville is a research staff member in the Mathematical Sciences Department of the IBM T J Watson Research Center. Prior to joining the Research Center he served ten years as a mathematical statistician in the Applied Mathematics Research Laboratory of the Aerospace Research Laboratories at Wright Patterson Air Force Base, Ohio, followed by twenty years as a full professor in the Department of Statistics at Iowa State University. He has extensive experience in linear statistical models which is an area of statistics that makes heavy use of matrix algebra and has taught on numerous occasions graduate level courses on that topic. He has authored over 70 research articles. His work has been recognized by his election as a Fellow of the American Statistical Association and the Institute of Mathematical Statistics.

[Problems And Solutions In Introductory And Advanced Matrix Calculus \(Second Edition\)](#) Yorick Hardy, Willi-hans Steeb, 2016-07-14 This book provides an extensive collection of problems with detailed solutions in introductory and advanced matrix calculus. Supplementary problems in each chapter will challenge and excite the reader ideal for both graduate and undergraduate mathematics and theoretical physics students. The

coverage includes systems of linear equations linear differential equations integration and matrices Kronecker product and vec operation as well as functions of matrices Furthermore specialized topics such as spectral theorem nonnormal matrices and mutually unbiased bases are included Many of the problems are related to applications for group theory Lie algebra theory wavelets graph theory and matrix valued differential forms benefitting physics and engineering students and researchers alike It also branches out to problems with tensors and the hyperdeterminant Computer algebra programs in Maxima and SymbolicC have also been provided

The Matrix Algebra Calculator Charles H. Jepsen, Eugene A.

Herman, 1988 **Basic Linear Algebra: Exercises And Solutions** Mohammed Hichem Mortad, 2025-10-15 This book is mainly intended for first year university students who undertake a basic linear algebra course as well as instructors It contains the basic notions of linear algebra through solved exercises as well as a True or False section in each chapter Each chapter also contains an essential background section which makes the book easier to use

Solutions Manual to accompany Fundamentals of Matrix Analysis with Applications Edward Barry Saff, Arthur David Snider, 2016-04-06 Solutions Manual to accompany Fundamentals of Matrix Analysis with Applications an accessible and clear introduction to linear algebra with a focus on matrices and engineering applications

Matrix Algebra James E. Gentle, 2007-08-06 Matrix algebra is one of the most important areas of mathematics for data analysis and for statistical theory The first part of this book presents the relevant aspects of the theory of matrix algebra for applications in statistics This part begins with the fundamental concepts of vectors and vector spaces next covers the basic algebraic properties of matrices then describes the analytic properties of vectors and matrices in the multivariate calculus and finally discusses operations on matrices in solutions of linear systems and in eigenanalysis This part is essentially self contained The second part of the book begins with a consideration of various types of matrices encountered in statistics such as projection matrices and positive definite matrices and describes the special properties of those matrices The second part also describes some of the many applications of matrix theory in statistics including linear models multivariate analysis and stochastic processes The brief coverage in this part illustrates the matrix theory developed in the first part of the book The first two parts of the book can be used as the text for a course in matrix algebra for statistics students or as a supplementary text for various courses in linear models or multivariate statistics The third part of this book covers numerical linear algebra It begins with a discussion of the basics of numerical computations and then describes accurate and efficient algorithms for factoring matrices solving linear systems of equations and extracting eigenvalues and eigenvectors Although the book is not tied to any particular software system it describes and gives examples of the use of modern computer software for numerical linear algebra This part is essentially self contained although it assumes some ability to program in Fortran or C and or the ability to use R S Plus or Matlab This part of the book can be used as the text for a course in statistical computing or as a supplementary text for various courses that emphasize computations The book includes a large number of exercises with some solutions provided in an appendix

Fundamentals of Matrix Analysis with Applications Edward Barry Saff, Arthur David Snider, 2015-08-07 An accessible and clear introduction to linear algebra with a focus on matrices and engineering applications Providing comprehensive coverage of matrix theory from a geometric and physical perspective Fundamentals of Matrix Analysis with Applications describes the functionality of matrices and their ability to quantify and analyze many practical applications Written by a highly qualified author team the book presents tools for matrix analysis and is illustrated with extensive examples and software implementations Beginning with a detailed exposition and review of the Gauss elimination method the authors maintain readers interest with refreshing discussions regarding the issues of operation counts computer speed and precision complex arithmetic formulations parameterization of solutions and the logical traps that dictate strict adherence to Gauss's instructions The book heralds matrix formulation both as notational shorthand and as a quantifier of physical operations such as rotations projections reflections and the Gauss reductions Inverses and eigenvectors are visualized first in an operator context before being addressed computationally Least squares theory is expounded in all its manifestations including optimization orthogonality computational accuracy and even function theory Fundamentals of Matrix Analysis with Applications also features Novel approaches employed to explicate the QR singular value Schur and Jordan decompositions and their applications Coverage of the role of the matrix exponential in the solution of linear systems of differential equations with constant coefficients Chapter by chapter summaries review problems technical writing exercises select solutions and group projects to aid comprehension of the presented concepts Fundamentals of Matrix Analysis with Applications is an excellent textbook for undergraduate courses in linear algebra and matrix theory for students majoring in mathematics engineering and science The book is also an accessible go to reference for readers seeking clarification of the fine points of kinematics circuit theory control theory computational statistics and numerical algorithms

Matrix Algebra From a Statistician's Perspective David A. Harville, 2006-04-18 A knowledge of matrix algebra is a prerequisite for the study of much of modern statistics especially the areas of linear statistical models and multivariate statistics This reference book provides the background in matrix algebra necessary to do research and understand the results in these areas Essentially self contained the book is best suited for a reader who has had some previous exposure to matrices Solutions to the exercises are available in the author's Matrix Algebra Exercises and Solutions

A Problem-oriented Language for the Solution of Matrix Algebra Problems Leslie Sue White Collinson, 1968 Optimal and Robust Control Luigi

Fortuna, Mattia Frasca, Arturo Buscarino, 2021-11-24 There are many books on advanced control for specialists but not many present these topics for non specialists Assuming only a basic knowledge of automatic control and signals and systems this second edition of Optimal and Robust Control offers a straightforward self contained handbook of advanced topics and tools in automatic control The book deals with advanced automatic control techniques paying particular attention to robustness the ability to guarantee stability in the presence of uncertainty It explains advanced techniques for handling uncertainty and

optimizing the control loop. It also details analytical strategies for obtaining reduced order models. The authors then propose using the Linear Matrix Inequality LMI technique as a unifying tool to solve many types of advanced control problems. Topics covered in the book include LQR and H approaches, Kalman and singular value decomposition, Open loop balancing and reduced order models, Closed loop balancing, Positive real systems, bounded real systems and imaginary negative systems. Criteria for stability control, Time delay systems. This easy to read text presents the essential theoretical background and provides numerous examples and MATLAB exercises to help the reader efficiently acquire new skills. Written for electrical, electronic, computer science, space and automation engineers interested in automatic control, this book can also be used for self study of for a one semester course in robust control. This fully renewed second edition of the book also includes new fundamental topics such as Lyapunov functions for stability, variational calculus formulation in terms of optimization problems of matrix algebraic equations, negative imaginary systems and time delay systems.

Matrix Algebra for Linear Models Marvin H. J. Gruber, 2013-12-13 A self contained introduction to matrix analysis theory and applications in the field of statistics. Comprehensive in scope, Matrix Algebra for Linear Models offers a succinct summary of matrix theory and its related applications to statistics, especially linear models. The book provides a unified presentation of the mathematical properties and statistical applications of matrices in order to define and manipulate data. Written for theoretical and applied statisticians, the book utilizes multiple numerical examples to illustrate key ideas, methods, and techniques crucial to understanding matrix algebra's application in linear models. Matrix Algebra for Linear Models expertly balances concepts and methods, allowing for a side by side presentation of matrix theory and its linear model applications. Including concise summaries on each topic, the book also features methods of deriving results from the properties of eigenvalues and the singular value decomposition, Solutions to matrix optimization problems for obtaining more efficient biased estimators for parameters in linear regression models, A section on the generalized singular value decomposition, Multiple chapter exercises with selected answers to enhance understanding of the presented material. Matrix Algebra for Linear Models is an ideal textbook for advanced undergraduate and graduate level courses on statistics, matrices and linear algebra. The book is also an excellent reference for statisticians, engineers, economists and readers interested in the linear statistical model.

Matrix Analysis and Applied Linear Algebra Study and Solutions Guide Carl D. Meyer, 2023-05-18 This second edition has been almost completely rewritten to create a textbook designed to provide flexibility for nearly any desired degree of rigor and depth of coverage. This is achieved with a linear development ensuring that material at any point is not dependent on subsequent developments and by means of graduated levels of sophistication. The text moves from traditional first principles in early chapters to deeper topics involving both theory and applications in later chapters. This allows for a traditional single term course based on roughly half of the text without having to refer to more advanced topics while the later portion of the book facilitates a seamless two term course covering the range of theory and applications generally reserved for discussions.

beyond fundamentals Rigor is present throughout but the level is adaptable because all major theorems have ample accompanying discussions and illustrative examples designed to convince readers and students of the validity of a result without a deep dive into the proof Moreover there is an expanded emphasis on both the depth and breadth of applications that are designed to illuminate the utility of the subject across broad areas of science and engineering At major junctures there are photos and historical remarks concerning the personalities who created and contributed to the subject s development Throughout there are carefully constructed exercises ranging from easy to moderately challenging to difficult many of which condition students for topics that follow *Exercises in Numerical Linear Algebra and Matrix Factorizations*

Tom Lyche,Georg Muntingh,Øyvind Ryan,2020-11-02 To put the world of linear algebra to advanced use it is not enough to merely understand the theory there is a significant gap between the theory of linear algebra and its myriad expressions in nearly every computational domain To bridge this gap it is essential to process the theory by solving many exercises thus obtaining a firmer grasp of its diverse applications Similarly from a theoretical perspective diving into the literature on advanced linear algebra often reveals more and more topics that are deferred to exercises instead of being treated in the main text As exercises grow more complex and numerous it becomes increasingly important to provide supporting material and guidelines on how to solve them supporting students learning process This book provides precisely this type of supporting material for the textbook Numerical Linear Algebra and Matrix Factorizations published as Vol 22 of Springer s Texts in Computational Science and Engineering series Instead of omitting details or merely providing rough outlines this book offers detailed proofs and connects the solutions to the corresponding results in the textbook For the algorithmic exercises the utmost level of detail is provided in the form of MATLAB implementations Both the textbook and solutions are self contained This book and the textbook are of similar length demonstrating that solutions should not be considered a minor aspect when learning at advanced levels

Journal of the American Statistical Association ,2006 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data **KWIC**

Index for Numerical Algebra Alston Scott Householder,1972 **Introduction to Matrix Algebra** Autar Kaw,2008-09

Since 2002 the Introduction to Matrix Algebra book has been downloaded by more than 30 000 users from 50 different countries This book is an extended primer for undergraduate Matrix Algebra The book is either to be used as a refresher material for students who have already taken a course in Matrix Algebra or used as a just in time tool if the burden of teaching Matrix Algebra has been placed on several courses In my own department the Linear Algebra course was taken out of the curriculum a decade ago It is now taught just in time in courses like Statics Programming Concepts Vibrations and Controls There are ten chapters in the book 1 INTRODUCTION 2 VECTORS 3 BINARY MATRIX OPERATIONS 4 UNARY

MATRIX OPERATIONS 5 SYSTEM OF EQUATIONS 6 GAUSSIAN ELIMINATION 7 LU DECOMPOSITION 8 GAUSS SEIDAL METHOD 9 ADEQUACY OF SOLUTIONS 10 EIGENVALUES AND EIGENVECTORS Practice Makes Perfect Linear Algebra (EBOOK) Sandra Luna McCune, William D. Clark, 2013-01-04 Expert instruction and plenty of practice to reinforce advanced math skills Presents concepts with application to natural sciences engineering economics computer science and other branches of mathematics Complementary to most linear algebra courses or as a refresher text More than 500 exercises and answers Hundreds of solved problems The Practice Makes Perfect series has sold more than 1 million copies worldwide

Schaum's outline of theory and problems of matrices Frank Ayres, 1962 **Matrix Analysis and Applied Linear Algebra** Carl D. Meyer, 2000-06-01 This book avoids the traditional definition theorem proof format instead a fresh approach introduces a variety of problems and examples all in a clear and informal style The in depth focus on applications separates this book from others and helps students to see how linear algebra can be applied to real life situations Some of the more contemporary topics of applied linear algebra are included here which are not normally found in undergraduate textbooks Theoretical developments are always accompanied with detailed examples and each section ends with a number of exercises from which students can gain further insight Moreover the inclusion of historical information provides personal insights into the mathematicians who developed this subject The textbook contains numerous examples and exercises historical notes and comments on numerical performance and the possible pitfalls of algorithms Solutions to all of the exercises are provided as well as a CD ROM containing a searchable copy of the textbook

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