

Extension Exercise on Matrix Algebra : Solutions

Exercise One:

Let $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ 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:

Let $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ 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

David A Towers



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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

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

The Matrix Algebra Calculator Charles H. Jepsen, Eugene A. Herman, 1988

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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

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

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onExcel The book is tailored towards a readership of 1st or 2nd year students of Quantitative Methods or maths and statistics on Business Management and Accountancy courses It would also be appropriate for use on MBA management or accountancy diploma courses Mathematical Reviews ,2004 **Guide to Linear Algebra** David A Towers,1988-05-10

This textbook offers a carefully paced and sympathetic treatment of linear algebra assuming knowledge only of the basic notation and elementary ideas of set theory It progresses gradually to the more powerful and abstract notions of linear algebra providing exercises which test and develop the reader s understanding at the end of each section Full answers are given for most of the exercises to facilitate self paced study *Linear Algebra with Applications* Charles G. Cullen,1997 This clear unintimidating introductory text is distinguished by its strong computational and applied approach Suitable for a sophomore level course in linear matrix or computational algebra it prepares students for further study in mathematics computer science chemistry or economics An outstanding interactive software package specifically developed to accompany this text offers ease of use power and flexibility focusing attention on the interpretation of calculations rather than on the calculations themselves The Second Edition has been improved by including more applications more motivation to discussions more graphics and discussions of various relevant software packages and the TI 85 graphics calculator

Bulletin of the Belgian Mathematical Society, Simon Stevin ,2003 **Fundamentals of Differential Equations and Boundary Value Problems** R. Kent Nagle,E. B. Saff,Arthur David Snider,2004 An introduction to powerful ideas on teaching and learning developed recently providing an integrative overview of how the various ideas come together to suggest a distinctive way of thinking about the influences affecting student learning Encourages teachers to use their knowledge and experiences to these ideas in their teaching *Introduction to Higher Algebra* Maxime Bôcher,Edmund Pendleton Randolph Duval,1907

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