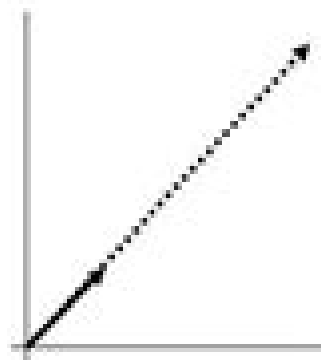


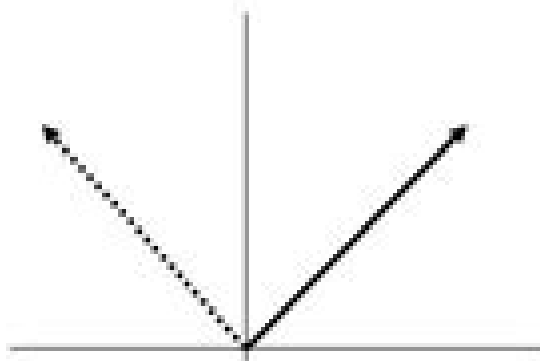
Matrices as linear transformations

$$\begin{pmatrix} 5 & 0 \\ 0 & 5 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} 5 \\ 5 \end{pmatrix}$$



(stretching)

$$\begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix} \begin{pmatrix} 1 \\ 1 \end{pmatrix} = \begin{pmatrix} -1 \\ 1 \end{pmatrix}$$



(rotation)

Matrices Linear Transformations

Meighan I. Dillon



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Matrices and Transformations Anthony J. Pettofrezzo, 2012-05-04 This book presents an elementary and concrete approach to linear algebra that is both useful and essential for the beginning student and teacher of mathematics Here are the fundamental concepts of matrix algebra first in an intuitive framework and then in a more formal manner A Variety of interpretations and applications of the elements and operations considered are included In particular the use of matrices in the study of transformations of the plane is stressed The purpose of this book is to familiarize the reader with the role of matrices in abstract algebraic systems and to illustrate its effective use as a mathematical tool in geometry The first two chapters cover the basic concepts of matrix algebra that are important in the study of physics statistics economics engineering and mathematics Matrices are considered as elements of an algebra The concept of a linear transformation of the plane and the use of matrices in discussing such transformations are illustrated in Chapter Some aspects of the algebra of transformations and its relation to the algebra of matrices are included here The last chapter on eigenvalues and eigenvectors contains material usually not found in an introductory treatment of matrix algebra including an application of the properties of eigenvalues and eigenvectors to the study of the conics Considerable attention has been paid throughout to the formulation of precise definitions and statements of theorems The proofs of most of the theorems are included in detail in this book Matrices and Transformations assumes only that the reader has some understanding of the basic fundamentals of vector algebra Pettofrezzo gives numerous illustrative examples practical applications and intuitive analogies There are many instructive exercises with answers to the odd numbered questions at the back The exercises range from routine computations to proofs of theorems that extend the theory of the subject Originally written for a series concerned with the mathematical training of teachers and tested with hundreds of college students this book can be used as a class or supplementary text for enrichments programs at the high school level a one semester college course individual study or for in service programs

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Linear Algebra: Core Topics For The First Course Dragu Atanasiu, Piotr Mikusinski, 2020-03-26 The book is an introduction to linear algebra intended as a textbook for the first course in linear algebra. In the first six chapters, we present the core topics: matrices, the vector space \mathbb{R}^n , orthogonality in \mathbb{R}^n , determinants, eigenvalues, and eigenvectors, and linear transformations. The book gives students an opportunity to better understand linear algebra in the next three chapters: Jordan forms, by examples, singular value decomposition, and quadratic forms, and positive

definite matrices In the first nine chapters everything is formulated in terms of n This makes the ideas of linear algebra easier to understand The general vector spaces are introduced in Chapter 10 The last chapter presents problems solved with a computer algebra system At the end of the book we have results or solutions for odd numbered exercises

Jacobians of Matrix Transformations and Functions of Matrix Argument A. M. Mathai, 1997 This book concentrates on the topic of evaluation of Jacobians in some specific linear as well as nonlinear matrix transformations in the real and complex cases which are widely applied in the statistical physical engineering biological and social sciences It aims to develop some techniques systematically so that anyone with a little exposure to multivariable calculus can easily follow the steps and understand the various methods by which the Jacobians in complicated matrix transformations are evaluated The material is developed slowly with lots of worked examples aimed at self study Some exercises are also given at the end of each section The book is a valuable reference for statisticians engineers physicists econometricians applied mathematicians and people working in many other areas It can be used for a one semester graduate level course on Jacobians and functions of matrix argument

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