

BASIC MATRIX ALGEBRA

(Appendix to ch 18 Stock and Watson, appendix A Verbeek)

Notation:

matrices are represented by capital letters in bold, e.g. \mathbf{A} , vectors in lowercase bold, e.g. \mathbf{a} , and entries of vectors and matrices are italic (since they are numbers from a field), e.g. A and a . Index notation is often the clearest way to express definitions, and is used as standard in the literature. The i, j entry of matrix \mathbf{A} is indicated by $(\mathbf{A})_{ij}$, A_{ij} or a_{ij} , whereas a numerical label (not matrix entries) on a collection of matrices is subscripted only, e.g. $\mathbf{A}_1, \mathbf{A}_2$, etc.

Definitions of Vectors and Matrices

A **vector** is a collection of n numbers or elements, collected either in a column (a **column vector**) or in a row (a **row vector**). The n -dimensional column vector \mathbf{b} and the n -dimensional row vector \mathbf{c} are

$$\mathbf{b} = \begin{bmatrix} b_1 \\ b_2 \\ \vdots \\ b_n \end{bmatrix} \text{ and } \mathbf{c} = [c_1 \quad c_2 \quad \cdots \quad c_n],$$

where b_1 is the first element of \mathbf{b} and in general b_i is the i^{th} element of \mathbf{b} .

Throughout, a boldface symbol denotes a vector or matrix.

A **matrix** is a collection, or an array, of numbers or elements in which the elements are laid out in columns and rows. The dimension of a matrix is $n \times m$, where n is the number of rows and m is the number of columns. The $n \times m$ matrix \mathbf{A} is

$$\mathbf{A} = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1m} \\ a_{21} & a_{22} & \cdots & a_{2m} \\ \vdots & \vdots & \ddots & \vdots \\ a_{n1} & a_{n2} & \cdots & a_{nm} \end{bmatrix},$$

where a_{ij} is the (i, j) element of \mathbf{A} , that is, a_{ij} is the element that appears in the i^{th} row and j^{th} column. An $n \times m$ matrix consists of n row vectors or, alternatively, of m column vectors.

To distinguish one-dimensional numbers from vectors and matrices, a one-dimensional number is called a **scalar**.

Matrix Algebra Assets

George J. Staubus



Matrix Algebra Assets:

A Practitioner's Guide to Asset Allocation William Kinlaw, Mark P. Kritzman, David Turkington, 2017-05-02 Since the formalization of asset allocation in 1952 with the publication of Portfolio Selection by Harry Markowitz there have been great strides made to enhance the application of this groundbreaking theory. However, progress has been uneven. It has been punctuated with instances of misleading research which has contributed to the stubborn persistence of certain fallacies about asset allocation. A Practitioner's Guide to Asset Allocation fills a void in the literature by offering a hands-on resource that describes the many important innovations that address key challenges to asset allocation and dispels common fallacies about asset allocation. The authors cover the fundamentals of asset allocation including a discussion of the attributes that qualify a group of securities as an asset class and a detailed description of the conventional application of mean variance analysis to asset allocation. The authors review a number of common fallacies about asset allocation and dispel these misconceptions with logic or hard evidence. The fallacies debunked include such notions as asset allocation determines more than 90% of investment performance, time diversifies risk, optimization is hypersensitive to estimation error, factors provide greater diversification than assets and are more effective at reducing noise, and that equally weighted portfolios perform more reliably out of sample than optimized portfolios. A Practitioner's Guide to Asset Allocation also explores the innovations that address key challenges to asset allocation and presents an alternative optimization procedure to address the idea that some investors have complex preferences and returns may not be elliptically distributed. Among the challenges highlighted, the authors explain how to overcome inefficiencies that result from constraints by expanding the optimization objective function to incorporate absolute and relative goals simultaneously. The text also explores the challenge of currency risk, describes how to use shadow assets and liabilities to unify liquidity with expected return and risk, and shows how to evaluate alternative asset mixes by assessing exposure to loss throughout the investment horizon based on regime-dependent risk. This practical text contains an illustrative example of asset allocation which is used to demonstrate the impact of the innovations described throughout the book. In addition, the book includes supplemental material that summarizes the key takeaways and includes information on relevant statistical and theoretical concepts as well as a comprehensive glossary of terms.

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Heterogeneous Beliefs, Asset Market Equilibrium and the Arbitrage Pricing Model Puneet Handa, Scott C. Linn,1986 *Asset Allocation for Institutional Portfolios* Mark P. Kritzman,1990

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