

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

CH Cherryholmes



Matrix Algebra Assets:

Matrix Algebra Assets Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Matrix Algebra Assets**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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