

1.1. INTRODUCTION

A matrix is defined as a rectangular array (or arrangement in rows or columns) of scalars subject to certain rules of operations.

If mn numbers (real or complex) or functions are arranged in the form of a rectangular array A having m rows (horizontal lines) and n columns (vertical lines) then A is called an $m \times n$ matrix. Each of the mn numbers is called an element of the matrix.

There are different notations of enclosing the elements constituting a matrix viz. $\{ \}$, $()$, $\| \|$ but square bracket is generally used. An $m \times n$ matrix is also called a matrix of order $m \times n$.

For example, $\begin{bmatrix} 2 & -1 & 5 \\ 3 & 0 & 4 \end{bmatrix}$ is a 2×3 matrix or matrix of order 2×3 . It has two rows and three columns. The numbers 2, -1, 5, 3, 0, 4 are its elements.

An $m \times n$ matrix is usually written as

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} & \dots & a_{1n} \\ a_{21} & a_{22} & a_{23} & \dots & a_{2n} \\ a_{31} & a_{32} & a_{33} & \dots & a_{3n} \\ \dots & \dots & \dots & \dots & \dots \\ a_{m1} & a_{m2} & a_{m3} & \dots & a_{mn} \end{bmatrix}$$

Here each element has two suffixes. The first suffix indicates the row and the second suffix indicates the column in which the element lies. Thus, a_{23} is the element lying in the second row and third column, a_{ij} is the element lying in the i^{th} row and j^{th} column.

For brevity, a matrix is usually denoted by a single capital letter A , B or C etc.

Thus, an $m \times n$ matrix A may be written as

$$A = [a_{ij}]_{m \times n} \quad \text{or} \quad A = [a_{ij}], \quad \text{where } i = 1, 2, 3, \dots, m; j = 1, 2, 3, \dots, n$$

1.2. APPLICATIONS OF MATRICES

In Algebra, the matrices have their largest application in the theory of simultaneous equations and linear transformations. *e.g.*, the set of simultaneous equations,

$$a_{11}x_1 + a_{12}x_2 + a_{13}x_3 = b_1$$

$$a_{21}x_1 + a_{22}x_2 + a_{23}x_3 = b_2$$

$$a_{31}x_1 + a_{32}x_2 + a_{33}x_3 = b_3$$

may be symbolically represented by the equation,

$$AX = B$$

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