

1 Matrices

(Note: see also the additional sheet of Matrix examples for this module.)

1.1 What is a matrix?

1.1.1 Definitions and Notation

Engineering analysis often produces very large systems of simultaneous equations, sometimes more than 1,000 equations in 1,000 unknowns. To solve these systematically, we need a method of recording and calculating that can be programmed on a computer.

A **matrix** is a rectangular array of numbers, or symbols representing numbers or other quantities.

As a first, simple example, here are three equations in variables x, y, z :

$$\begin{array}{rclcl} 2x & +3y & +4z & = & 1 \\ 3x & -y & & = & 2 \\ x & +2y & +1.5z & = & 3 \end{array} \quad (1)$$

We can write this in the form:

$$\begin{bmatrix} 2 & 3 & 4 \\ 3 & -1 & 0 \\ 1 & 2 & 1.5 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} \quad (2)$$

This is a 3×3 *square matrix* (i.e. 3 rows and 3 columns), and two 3×1 matrices, also called *column matrices* or *column vectors*. Note the way they combine to produce the equations.

Here's some more examples of matrices of various shapes and sizes, with descriptions:

$$\begin{array}{l} \begin{pmatrix} 2 & 5 & -1 \\ 0 & 3 & 2 \end{pmatrix} \text{ - a } 2 \times 3 \text{ rectangular matrix} \\ \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix} \text{ - a } 2 \times 2 \text{ square matrix, which is also a zero matrix (all entries zero).} \\ \begin{bmatrix} 2 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 4 \end{bmatrix} \text{ - a } 3 \times 3 \text{ diagonal matrix.} \end{array} \quad (3)$$

Note: we can use either (.) brackets or [.] brackets. Square brackets are clearer for large matrices.

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