

Chapter 01 Matrix Multiplication

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Contents

1 Basic Algorithms and Notation	1
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1 Basic Algorithms and Notation

Declaration.

let \mathbb{R} designate the set of real numbers.

$$A \in \mathbb{R}^{m \times n} \Leftrightarrow A = (a_{ij}) = \begin{bmatrix} a_{11} & \cdots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{m1} & \cdots & a_{mn} \end{bmatrix}, a_{ij} \in \mathbb{R} \quad (1)$$