

Basic Matrix Theory

1. Matrix as a Linear Transformation

Let A be an $n \times m$ matrix of real numbers. Instead of defining a matrix as a rectangular array of real numbers, we view it as a *linear function* from \mathbb{R}^m to \mathbb{R}^n .

First, A is interpreted as a *function* so that we write

$$y = Ax,$$

where $y \in \mathbb{R}^n$ is the output, corresponding to the input $x \in \mathbb{R}^m$, of the function defined by A . Throughout, Ax is defined as the usual multiplication of a vector x to the matrix A . Note that we write as Ax the function A with its argument x , instead of $A(x)$, which is more standard in the general context. If A is a square matrix, in which case we have $n = m$, the function represented by A becomes a *transformation* on \mathbb{R}^n , i.e., a function from \mathbb{R}^n into itself.

Second, A represents a *linear* function. This follows directly from the usual rule for the matrix and vector multiplication, i.e., we have

$$A(c_1x_1 + c_2x_2) = c_1Ax_1 + c_2Ax_2$$

for any scalars c_1 and c_2 and vectors x_1 and x_2 in \mathbb{R}^m , which implies that A is linear as a function.

As for the usual linear function, we may define the *range* $\mathcal{R}(A)$ and *null space* (or *kernel*) $\mathcal{N}(A)$ of a function defined by a matrix A by

$$\begin{aligned}\mathcal{R}(A) &= \{y \mid y = Ax \text{ for some } x\} \\ \mathcal{N}(A) &= \{x \mid Ax = 0\}.\end{aligned}$$

We may easily show that $\mathcal{R}(A)$ and $\mathcal{N}(A)$ are *subspaces* respectively of \mathbb{R}^n and \mathbb{R}^m , i.e., subsets of vector spaces \mathbb{R}^n and \mathbb{R}^m that are vector spaces themselves. If $y_1, y_2 \in \mathcal{R}(A)$, then there exist x_1, x_2 such that $y_1 = Ax_1, y_2 = Ax_2$, and therefore, we have

Basic Matrix Theory

Minjie Lin



Basic Matrix Theory:

Enjoying the Tune of Appearance: An Psychological Symphony within **Basic Matrix Theory**

In a world used by displays and the ceaseless chatter of immediate connection, the melodic beauty and emotional symphony produced by the prepared word often fade in to the backdrop, eclipsed by the persistent noise and disruptions that permeate our lives. Nevertheless, nestled within the pages of **Basic Matrix Theory** a stunning literary treasure full of raw emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, that fascinating masterpiece conducts readers on an emotional journey, skillfully unraveling the hidden tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this emotional review, we will discover the book is main harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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