

Applications of Linear Algebra in Communication

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Abstract

Linear algebra has important role in engineering, but many people whom work in science and technology don't sufficient information about using it in them field, in this literature we try somewhat introduce applications of linear algebra in engineering, particularly in communication and relevancy it's concepts to phrases as Fourier Transform, least squares, transfer functions, matched filter and etc to show it's important role.

Some other mathematical subjects that are important for electrical engineering students include probability and stochastic processes, statistics, and discrete mathematics.

Keywords: Linear algebra, communication, vectors, matched filter, singular value decomposition

1. Introduction

Linear algebra (LA) has important role in engineering, but many people whom work in science and technology don't sufficient information about using it in them field, in this literature we try to introduce applications of linear algebra in engineering, particularly in communication and relevancy it's concepts to phrases as Fourier Transform, least squares, transfer functions, matched filter and etc to show it's important role. The aim of this paper is showing important role of LA with examples in communication.

This paper contains five part, first introduction, second basic concepts, third applications, forth conclusion and future research directions and finally references.

2. Basic concepts

In this part, we study the topics in linear algebra that will be needed in the rest of the literature.

We begin by discussing the building blocks of linear algebra: matrices and vectors.

Definition: a matrix is any rectangular array of numbers [1].

If a matrix A has m rows and n columns, we call A an m by n matrix. We refer to m by n as the order of the matrix. A typical m by n matrix A may be written as

$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m1} & a_{m2} & \cdots & a_{mn} \end{bmatrix} \quad (1)$$

The number in the i th row and j th column of A is called the ij th element of A and is written a_{ij} . Two matrices $A=[a_{ij}]$ and $B=[b_{ij}]$ are equal if only if A and B are of the same order and for all i and j , $a_{ij} = b_{ij}$.

Definition: a matrix is any matrix with only one column (that is, any $m \times 1$ matrix) may be thought of as a column vector. R^n will denote the set of all m -dimensional column vectors.

Applications Of Linear Algebra

ML Morrison



Applications Of Linear Algebra:

The book delves into Applications Of Linear Algebra. Applications Of Linear Algebra is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Applications Of Linear Algebra, encompassing both the fundamentals and more intricate discussions.

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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Applications Of Linear Algebra.

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