

ELECTRIC CIRCUIT ANALYSIS

CHAPTER ONE: ELECTRIC CIRCUIT ANALYSIS

1.1 Principles of Complex Quantities

Definition: In mathematics, a complex number is an element of a number system that contains the real numbers and a specific element denoted j , called the imaginary unit, and satisfying the equation $j^2 = -1$. It is generally a number of the form $z = x + jy$

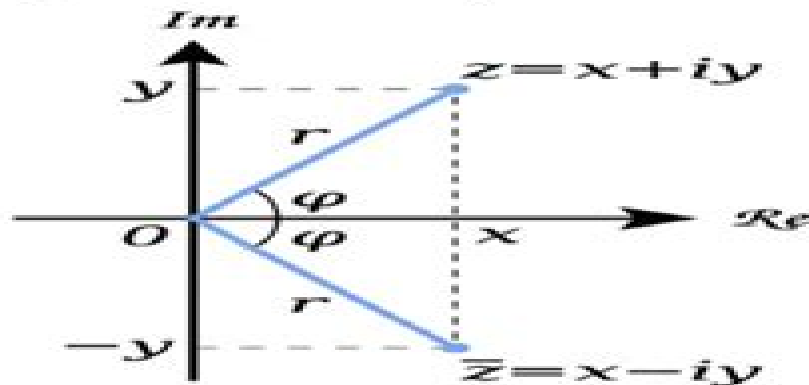
Complex number = z

Real part = x

Imaginary part = jy

For example, $2 + j3$ is a complex number.

Graphical Representation of Complex Numbers



$z = x + jy$ - positive imaginary part

$z = x - jy$ - negative imaginary part

r = magnitude or modulus of z which is given by:

$$r = |z| = \sqrt{x^2 + y^2}$$

Φ = angle between x and r known as phase angle

Ways of expressing complex numbers

a) Rectangular form

The number is generally expressed as $z = a + jb$

Rem: a and b are real numbers but due to the presence of imaginary unit j , the term jb becomes imaginary number.

b) Polar Form

From the graphical representation

$$\cos\Phi = x/r \text{ i.e. } x = r\cos\Phi$$

$$\sin\Phi = y/r \text{ i.e. } y = r\sin\Phi$$

$$z = r\cos\Phi + jr\sin\Phi$$

$$z = r \angle \Phi$$

Introduction To Electric Circuit Analysis

Emilie Sanchez



Introduction To Electric Circuit Analysis:

This book delves into Introduction To Electric Circuit Analysis. Introduction To Electric Circuit Analysis is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Introduction To Electric Circuit Analysis, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Introduction To Electric Circuit Analysis
 - Chapter 2: Essential Elements of Introduction To Electric Circuit Analysis
 - Chapter 3: Introduction To Electric Circuit Analysis in Everyday Life
 - Chapter 4: Introduction To Electric Circuit Analysis in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Introduction To Electric Circuit Analysis. The first chapter will explore what Introduction To Electric Circuit Analysis is, why Introduction To Electric Circuit Analysis is vital, and how to effectively learn about Introduction To Electric Circuit Analysis.
3. In chapter 2, this book will delve into the foundational concepts of Introduction To Electric Circuit Analysis. This chapter will elucidate the essential principles that need to be understood to grasp Introduction To Electric Circuit Analysis in its entirety.
4. In chapter 3, this book will examine the practical applications of Introduction To Electric Circuit Analysis in daily life. The third chapter will showcase real-world examples of how Introduction To Electric Circuit Analysis can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Introduction To Electric Circuit Analysis in specific contexts. The fourth chapter will explore how Introduction To Electric Circuit Analysis is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Introduction To Electric Circuit Analysis. This chapter will summarize the key points that have been discussed throughout the book.

The 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 Introduction To Electric Circuit Analysis.

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