

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 $z = x + jy$

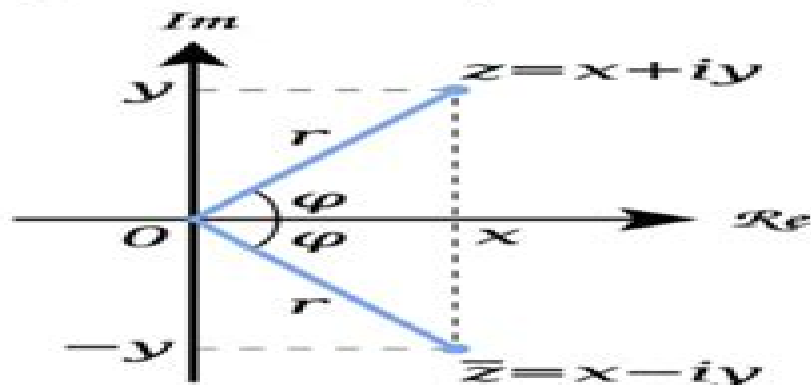
Complex number = z

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

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

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

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

$$z = r \angle \Phi$$

Introduction To Electric Circuit Analysis

Charles A. Schuler, Richard J. Fowler



Introduction To Electric Circuit Analysis:

Unveiling the Magic of Words: A Review of "**Introduction To Electric Circuit Analysis**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Introduction To Electric Circuit Analysis**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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