

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 $z = x + jy$

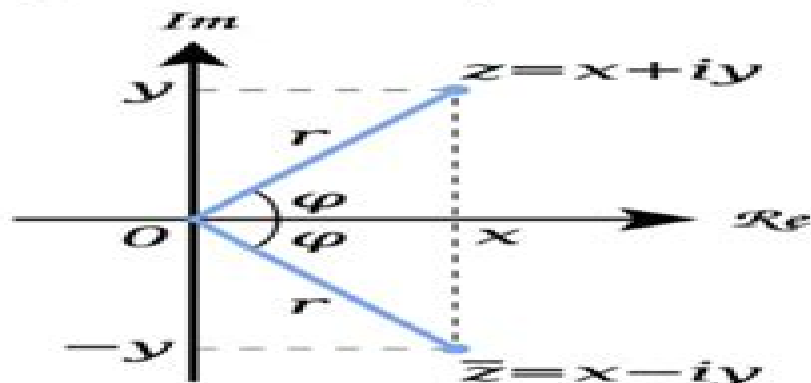
Complex number = z

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

M Woodhall



Introduction To Electric Circuit Analysis:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Introduction To Electric Circuit Analysis**

In a world inundated with monitors and the cacophony of immediate communication, the profound energy and psychological resonance of verbal beauty usually disappear into obscurity, eclipsed by the continuous assault of sound and distractions. Yet, nestled within the lyrical pages of **Introduction To Electric Circuit Analysis**, a captivating function of fictional beauty that pulses with fresh thoughts, lies an remarkable trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this mesmerizing opus books readers on a psychological odyssey, gently revealing the latent potential and profound affect stuck within the complicated internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect their interesting writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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