

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 $z = x + jy$

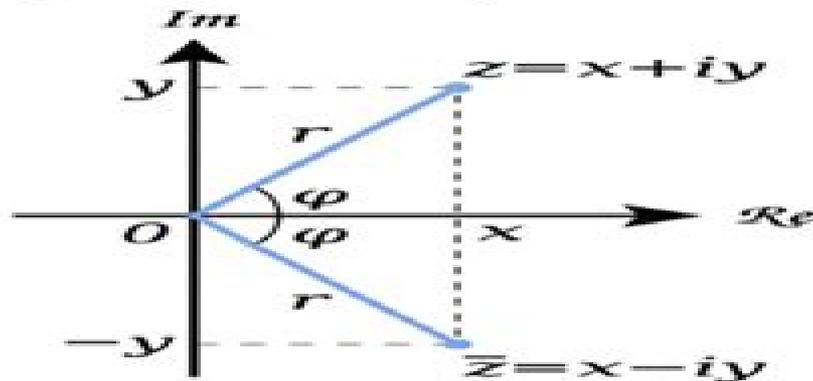
Complex number = z

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

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

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

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

$$z = r \angle \Phi$$

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 - The Rise of Digital Reading Electric Circuit Analysis Solution Download
 - Advantages of eBooks Over Traditional Books
2. Identifying Electric Circuit Analysis Solution Download
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Electric Circuit Analysis Solution Download
 - User-Friendly Interface
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 - Interactive Elements Electric Circuit Analysis Solution Download
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electric Circuit Analysis Solution Download
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electric Circuit Analysis Solution Download
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Electric Circuit Analysis Solution Download
 - Setting Reading Goals Electric Circuit Analysis Solution Download
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Electric Circuit Analysis Solution Download
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 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
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 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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