

# N2 Electrical Trade Theory

## Module 1: Alternating current circuit theory



### DEFINITIONS

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**Alternating current (AC)** – an electric current that reverses its direction many times a second at regular intervals

**Average value** – the average of all instantaneous values during one cycle of a sine wave

**Capacitive reactance** – the opposition that is offered to the flow of current in a capacitive circuit when an AC passes through it ( $X_C$ )

**Conductor** – a substance or material that can freely conduct the flow of charge carriers in the form of electrons from one atom to another in a specific material

**Cycle** – each repetition of a variable quantity, recurring at equal intervals

**Delta connection** – when three coils are connected in series to form a closed loop

**Effective (or RMS) value of an AC** – that value of AC that produces the same amount of heat energy, at the same rate, as a DC would, if passed through an identical resistance

**Form factor** – the ratio of the RMS value of a voltage or current to the average value of the voltage or current wave

**Generator** – a device that converts mechanical energy into electrical energy

**Impedance** – the total opposition impeding the passage of an AC in a circuit comprising combinations of resistors and reactances ( $Z$ )

**Inductive reactance** – the opposition that is offered to the flow of current in an inductive circuit when an AC flows through it ( $X_L$ )

**Instantaneous voltage or current** – the instantaneous value of voltage or current reached by a waveform at any instance in time

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**ML Morrison**



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## **Table of Contents Electrical Trade Theory N2 25 2014 Question Paper**

1. Understanding the eBook Electrical Trade Theory N2 25 2014 Question Paper
  - The Rise of Digital Reading Electrical Trade Theory N2 25 2014 Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Trade Theory N2 25 2014 Question Paper
  - 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 Electrical Trade Theory N2 25 2014 Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Trade Theory N2 25 2014 Question Paper
  - Personalized Recommendations
  - Electrical Trade Theory N2 25 2014 Question Paper User Reviews and Ratings
  - Electrical Trade Theory N2 25 2014 Question Paper and Bestseller Lists
5. Accessing Electrical Trade Theory N2 25 2014 Question Paper Free and Paid eBooks
  - Electrical Trade Theory N2 25 2014 Question Paper Public Domain eBooks
  - Electrical Trade Theory N2 25 2014 Question Paper eBook Subscription Services
  - Electrical Trade Theory N2 25 2014 Question Paper Budget-Friendly Options
6. Navigating Electrical Trade Theory N2 25 2014 Question Paper eBook Formats

- ePub, PDF, MOBI, and More
  - Electrical Trade Theory N2 25 2014 Question Paper Compatibility with Devices
  - Electrical Trade Theory N2 25 2014 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Electrical Trade Theory N2 25 2014 Question Paper
  - Highlighting and Note-Taking Electrical Trade Theory N2 25 2014 Question Paper
  - Interactive Elements Electrical Trade Theory N2 25 2014 Question Paper
8. Staying Engaged with Electrical Trade Theory N2 25 2014 Question Paper
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electrical Trade Theory N2 25 2014 Question Paper
9. Balancing eBooks and Physical Books Electrical Trade Theory N2 25 2014 Question Paper
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electrical Trade Theory N2 25 2014 Question Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electrical Trade Theory N2 25 2014 Question Paper
- Setting Reading Goals Electrical Trade Theory N2 25 2014 Question Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrical Trade Theory N2 25 2014 Question Paper
- Fact-Checking eBook Content of Electrical Trade Theory N2 25 2014 Question Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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