

ELTK1100 FORMULAS

Ohm's Law

$$I = \frac{V_T}{R}$$

Voltage Drop

$$V_x = I_x \cdot R_x$$

Current

$$I = \frac{q}{t}$$

$$1 \text{ C} = 6.25 \cdot 10^{18} \text{ electrons}$$

Power

$$P = V_T I = I^2 R = \frac{V_T^2}{R}$$

$$1 \text{ hp} = 746 \text{ W}$$

Energy

$$\text{Energy} = P t$$

$$\text{Cost} = \text{Energy} \cdot \frac{\text{cost}}{\text{kW}\cdot\text{h}}$$

$$\begin{array}{l} P \text{ in kW} \\ t \text{ in h} \\ \text{Energy in kW}\cdot\text{h} \end{array}$$

Heat

$$Q = M C \Delta T \quad \Delta T = T_2 - T_1$$

$$\text{Efficiency} = \frac{Q}{\text{Heat Produced}} \cdot 100\%$$

$$\text{Heat Produced} = \frac{P t}{4.187}$$

$$\begin{array}{l} P \text{ in W} \\ t \text{ in s} \end{array}$$

Series circuits (sub-circuits)

$$I_T = I_1 = I_2 = I_3 = \dots$$

$$R_T = R_1 + R_2 + R_3 + \dots$$

$$I_T = \frac{V_T}{R_T}$$

KVL

$$V_T = V_1 + V_2 + V_3 + \dots$$

Voltage Division (for series resistors)

$$V_x = \frac{R_x}{R_T} \cdot V_T$$

Parallel circuits (sub-circuits)

$$V_T = V_1 = V_2 = V_3 = \dots$$

$$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$$

$$I_T = \frac{V_T}{R_T}$$

KCL

$$I_T = I_1 + I_2 + I_3 + \dots$$

Current Division (for parallel resistors)

$$I_x = \frac{R_{eq}}{R_x} \cdot I_T$$

Current Division (for 2 parallel resistors)

$$I_x = \frac{\text{Opposite}}{\text{Sum}} \cdot I_T$$

Two resistors in parallel

$$R_1 \parallel R_2 = \frac{R_1 \cdot R_2}{(R_1 + R_2)}$$

n equal resistors in parallel

$$R_T = \frac{R}{n}$$

Conductance

$$G = \frac{1}{R}$$

$$G_T = G_1 + G_2 + G_3 + \dots$$

$$I_T = V_T G_T$$

Basic Electronic Business Machines Calculations An Introductory Course

Karin Nielsen-Saines



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Table of Contents Basic Electronic Business Machines Calculations An Introductory Course

1. Understanding the eBook Basic Electronic Business Machines Calculations An Introductory Course
 - The Rise of Digital Reading Basic Electronic Business Machines Calculations An Introductory Course
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electronic Business Machines Calculations An Introductory Course
 - 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 Basic Electronic Business Machines Calculations An Introductory Course
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electronic Business Machines Calculations An Introductory Course
 - Personalized Recommendations
 - Basic Electronic Business Machines Calculations An Introductory Course User Reviews and Ratings

- Basic Electronic Business Machines Calculations An Introductory Course and Bestseller Lists
- 5. Accessing Basic Electronic Business Machines Calculations An Introductory Course Free and Paid eBooks
 - Basic Electronic Business Machines Calculations An Introductory Course Public Domain eBooks
 - Basic Electronic Business Machines Calculations An Introductory Course eBook Subscription Services
 - Basic Electronic Business Machines Calculations An Introductory Course Budget-Friendly Options
- 6. Navigating Basic Electronic Business Machines Calculations An Introductory Course eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Electronic Business Machines Calculations An Introductory Course Compatibility with Devices
 - Basic Electronic Business Machines Calculations An Introductory Course Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Electronic Business Machines Calculations An Introductory Course
 - Highlighting and Note-Taking Basic Electronic Business Machines Calculations An Introductory Course
 - Interactive Elements Basic Electronic Business Machines Calculations An Introductory Course
- 8. Staying Engaged with Basic Electronic Business Machines Calculations An Introductory Course
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Electronic Business Machines Calculations An Introductory Course
- 9. Balancing eBooks and Physical Books Basic Electronic Business Machines Calculations An Introductory Course
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Electronic Business Machines Calculations An Introductory Course
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Electronic Business Machines Calculations An Introductory Course
 - Setting Reading Goals Basic Electronic Business Machines Calculations An Introductory Course
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Electronic Business Machines Calculations An Introductory Course
 - Fact-Checking eBook Content of Basic Electronic Business Machines Calculations An Introductory Course
 - 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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