

Applications of Mathematics in Circuit Theory

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Abstract - Application of Gaussian in circuit theory. using Kirchhoff's 2nd law. In this paper for a given circuit, forming into matrices form by using Kirchhoff's 2nd law we solve and find the current values. Less than 3x3 matrices we can use Cramer's rule, but more than 3x3, Cramer's cannot be done, so gauss elimination method is used to find the current values for the given circuits

I. CIRCUITS

An electronic circuit is composed of individual electronic components like Transistors, Capacitors, Inductors and Diodes. Resistors connected by conductive wires or traces through which Electric Current can flow. The combination of components and wires allows various simple and complex operations to be performed, signals can be amplified, computations can be performed, and data can be moved from one place to another. Circuits can be constructed of discrete components connected by individual pieces of wire

- Let R = Resistance of the circuit
- C = Capacitance in series with R
- I = Current flowing
- L = Inductor
- V = voltage across R
- R
- V_c = voltage across C
- V = voltage across L
- L

II. OHM'S LAW

Ohm's law defines a linear relationship between the voltage and the current in an electrical circuit. The DC current flow through a resistor is set by the resistor's voltage drop and the resistor's resistance.

Ohm's Law Formula / Equation

When we know the voltage and resistance, we can calculate the current.

Ohm's law definition

The resistor's current I in amps (A) is equal to the resistor's voltage V_R = V in volts (V) divided by the resistance R in ohms

(Ω):



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

In 1845, a German physicist, Gustav Kirchhoff developed a pair or set of rules or laws which deal with the conservation of

current and energy within electrical circuits. Application of Gauss Elimination in circuits

III. KIRCHHOFF'S 2ND LAW

In a closed circuit the sum of the potential drops is equal to the sum of the potential rises.

In the closed loop ABCDA,



Branch	Potential drop	Potential rise
AB	IR ₁	-
BC	IR ₂	-
CD	IR ₃	-
DA	-	V

Hence IR₁ + IR₂ + IR₃ = V

[Note: When we go from D to A (from the negative terminal to the positive terminal of the battery). There is a potential rise of V volts.

i₃

Assume the loop current to be I₁, I₂ and I₃ as shown in the figure, all clockwise.

The currents through R_A, R_C, R_E are I₁, I₂, I₃ respectively.

The current through R_B is I₁ - I₂ & through R_D is I₂ - I₃.

Branch	Potential rise	Potential drop
PQ	I ₁ R _A	-
QV	(I ₁ - I ₂)R _B	-
VW	-	V _a
WP	-	-

Mathematics For Electrical Circuit Analy

M Tight



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Table of Contents Mathematics For Electrical Circuit Analy

1. Understanding the eBook Mathematics For Electrical Circuit Analy
 - The Rise of Digital Reading Mathematics For Electrical Circuit Analy
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics For Electrical Circuit Analy
 - 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 Mathematics For Electrical Circuit Analy
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics For Electrical Circuit Analy
 - Personalized Recommendations
 - Mathematics For Electrical Circuit Analy User Reviews and Ratings
 - Mathematics For Electrical Circuit Analy and Bestseller Lists
5. Accessing Mathematics For Electrical Circuit Analy Free and Paid eBooks
 - Mathematics For Electrical Circuit Analy Public Domain eBooks
 - Mathematics For Electrical Circuit Analy eBook Subscription Services
 - Mathematics For Electrical Circuit Analy Budget-Friendly Options

6. Navigating Mathematics For Electrical Circuit Analy eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics For Electrical Circuit Analy Compatibility with Devices
 - Mathematics For Electrical Circuit Analy Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics For Electrical Circuit Analy
 - Highlighting and Note-Taking Mathematics For Electrical Circuit Analy
 - Interactive Elements Mathematics For Electrical Circuit Analy
8. Staying Engaged with Mathematics For Electrical Circuit Analy
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics For Electrical Circuit Analy
9. Balancing eBooks and Physical Books Mathematics For Electrical Circuit Analy
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics For Electrical Circuit Analy
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics For Electrical Circuit Analy
 - Setting Reading Goals Mathematics For Electrical Circuit Analy
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics For Electrical Circuit Analy
 - Fact-Checking eBook Content of Mathematics For Electrical Circuit Analy
 - 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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