

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_D 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 _D	-
VW	-	V _b
WP	-	-

Mathematics For Electrical Circuit Analy

L Kolev



Mathematics For Electrical Circuit Analy:

The Mathematics of Circuit Analysis Ernst A. Guillemin, 1965 **Transients for Electrical Engineers** Paul J. Nahin, 2018-07-05 This book offers a concise introduction to the analysis of electrical transients aimed at students who have completed introductory circuits and freshman calculus courses While it is written under the assumption that these students are encountering transient electrical circuits for the first time the mathematical and physical theory is not watered down That is the analysis of both lumped and continuous transmission line parameter circuits is performed with the use of differential equations both ordinary and partial in the time domain and the Laplace transform The transform is fully developed in the book for readers who are not assumed to have seen it before The use of singular time functions unit step and impulse is addressed and illustrated through detailed examples The appearance of paradoxical circuit situations often ignored in many textbooks because they are perhaps considered difficult to explain is fully embraced as an opportunity to challenge students In addition historical commentary is included throughout the book to combat the misconception that the material in engineering textbooks was found engraved on Biblical stones rather than painstakingly discovered by people of genius who often went down many wrong paths before finding the right one MATLAB is used throughout the book with simple codes to quickly and easily generate transient response curves *Mathematics for Electrical Circuit Analysis* David Philip Howson, 1966 *The mathematics of circuit analysis* Ernst A. Guillemin, 1959 **The Mathematics of Circuit Analysis** Ernst S. Guillemin, 2003-03-17 A text book designed to give the engineer a reasonably complete coverage of the mathematical topics needed specifically or collaterally in the analysis or synthesis of electrical networks **Electric Circuit Analysis** Charles J. Monier, 2001 This book establishes a clear relationship between the basic principles of electric circuit analysis and the problem solving procedures for analyzing electric currents It contains traditional topics in electric circuit analysis along with matrix methods for solving systems of algebraic equations for simultaneous solutions derivatives and integrals differential equations and Laplace transformers Chapter titles Ohm s Law and Resistance Kirchhoff s Laws and Resistor Combinations Basic Analysis Tools Numerical Methods Multi Loop Circuits Network Theorems The Operational Amplifier and Basic Measuring Devices Capacitors Inductors Mathematics for ac Circuits Network Theorems Applied to ac Circuits Two Port Networks and Three Phase Circuits A reference for professionals in technology related industries

Interval Methods for Circuit Analysis L. V. Kolev, 1993 Written by an electrical engineer this book presents a novel approach in electric circuit theory which is based on interval analysis an intensively developing branch or applied mathematics Covering major topics in both circuit and system theory and their applications it suggests a variety of methods that are suited for handling linear and nonlinear analysis problems in which some or all of the relevant data are given as intervals Detailed algorithms of the interval methods presented are developed enabling their easy implementation on computers For the convenience of the reader a comprehensive survey of all the necessary interval analysis notions and

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Electric Circuit Analysis Steven G. Conahan,1996 Electric Circuits Demetrios P. Kanoussis,2015-04-06 Electric Circuits constitute a core course in every Electrical Engineering curriculum with applications covering a wide area of disciplines like Electronics Electrical Machines Frequency Domain Analysis Transmission Lines etc In this book we lay out the foundations introducing fundamental principles definitions and formulas which are necessary for the understanding of more advanced topics The material is presented in a clear understandable format while the characteristic examples and problems accompanied by their solution contribute immensely to a thorough comprehension of the related material

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Mathematical for Electrical Circuit Analysis David Philip Howson, 1966

A Collection of Problems on a Course of Mathematical Analysis G. N. Berman, 2016-06-06 A Collection of Problems on a Course of Mathematical Analysis is a collection of systematically selected problems and exercises with corresponding solutions in mathematical analysis A common instruction precedes a group of problems of the same type Problems with a physics content are preceded by the necessary physical laws In the case of more or less difficult problems hints are given in the answers This book is comprised of 15 chapters and begins with an overview of functions and methods of specifying them notation for and classification of functions elementary investigation of functions and trigonometric and inverse trigonometric functions The following chapters deal with limits and tests for their existence differential calculus with emphasis on derivatives and differentials functions and curves definite and indefinite integrals and methods of evaluating definite integrals Some applications of the integral in geometry statics and physics are also considered along with functions of several variables multiple integrals and iterated integration line and surface integrals and differential equations The final chapter is devoted to trigonometric series This monograph is intended for students studying mathematical analysis within the framework of a technical college course

Circuit and Network Theory GATE, PSUS AND ES Examination Satish K Karna, Test Prep for

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