

# Applications of Mathematics in Circuit Theory

A. Alwin,  
SCSVMV University, Kanchipuram  
Email: alwin.best111@gmail.com

**Abstract** - Application of Gaussian in circuit theory, using Kirchhoff's 2<sup>nd</sup> law. In this paper for a given circuit, forming into matrices form by using Kirchhoff's 2<sup>nd</sup> 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, Resistor 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<sub>c</sub> = voltage across C

V<sub>L</sub> = 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<sub>R</sub> = V in volts (V) divided by the resistance R in ohms

(Ω):



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

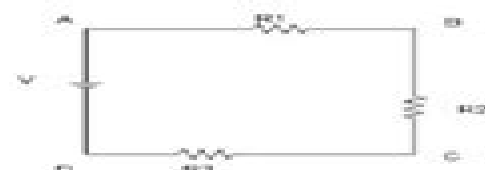
In 1845, a German physicist, Gustav Kirchhoff developed a pair or set of rules or laws which deal with the conservation of

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

## III. KIRCHHOFF'S 2<sup>ND</sup> 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  $IR_1 + IR_2 + IR_3 = V$

[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.

$I_3$

Assume the loop current to be  $I_1$ ,  $I_2$  and  $I_3$  as shown in the figure, all clockwise.

The currents through  $R_A$ ,  $R_C$ ,  $R_E$  are  $I_1$ ,  $I_2$ ,  $I_3$  respectively.

The current through  $R_B$  is  $I_1 - I_2$  & through  $R_D$  is  $I_2 - I_3$ .

Branch	Potential rise	Potential drop
PQ	$I_1 R_A$	-
QV	$(I_1 - I_2) R_B$	-
VW	-	$V$
WP	-	$V$

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


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