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# Electrical Circuit And Network Notes

## Polytechnic 3rd Semester

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LECTURE -1 **Essential \u0026 Practical Circuit Analysis: Part 1- DC Circuits** Series and Parallel Circuits Explained Voltage Current Resistance Physics AC vs DC \u0026 Ohm's Law Source transformation in network analysis *Superposition Theorem Explained (with Examples)*

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$i_2 + v_2 - + - + - i_1 v_1 v_3 v_3 v_1$  Figure 2: This is a loop. A node is a point at which two or more elements are interconnected.  $i_1 + v_1 - - v_2 + i_2 + - v_3 i_3$  Figure 3: This is a node.

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 A loop is any closed path in a circuit.

- A network with  $b$  branches,  $n$  nodes, and  $l$  independent loops will satisfy the fundamental theorem of network topology:  $b = l + n - 1$

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a collection of interconnected components. Network analysis is the process of finding the voltages across, and the currents through, all network components. There are many techniques for calculating these values. However, for the most part, the techniques assume linear components. Except where stated, the methods described in this article are applicable only to linear network analysis.

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1. A loop in the network is any closed

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Electric circuit theorems are always beneficial to help find voltage and currents in multi-loop circuits. These theorems use fundamental rules or formulas and basic equations of mathematics to analyze basic components of electrical or electronics parameters such as voltages, currents, resistance, and so on. These fundamental theorems include the basic theorems like Superposition theorem, Tellegen's theorem, Norton's theorem, Maximum power transfer theorem, and Thevenin's theorems.

*Basic Laws • Circuit Theorems • Methods of Network ...*

A Circuit which contains on many electrical elements such as resistors, capacitors, inductors, current sources and Voltage source (both AC and DC) is called Complex network. These kinds of networks can't be solved easily by simple ohm's Law or Kirchoff's laws. I.e. we solve these circuits by specific technique i.e. Norton's Theorem, Thevenin's Theorem, Superposition theorem etc.

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Network topology is a graphical representation of electric circuits. It is useful for analyzing complex electric

circuits by converting them into network graphs. Network topology is also called as Graph theory. Basic Terminology of Network Topology. Now, let us discuss about the basic terminology involved in this network topology. Graph

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