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When doing circuit analysis, you need to know some essential laws, electrical quantities, relationships, and theorems. Ohm's law is a key device equation that relates current, voltage, and resistance. Using Kirchhoff's laws, you can simplify a network of resistors using a single equivalent resistor. You can also do the same type of calculation to obtain [...]

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Covers basics of DC circuit analysis starting with the definition of voltage, current, resistance, power and energy. Linearity and superposition, together with Kirchhoff's laws, are applied to analysis of circuits having series, parallel and other combinations of circuit elements.

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Steady-state circuit analysis, first and second order systems, Fourier Series and Transforms, time domain analysis, convolution, transient response, Laplace Transform, and filter design. Prerequisites: ECE 35. ECE 65. Components and Circuits Laboratory (4) Introduction to linear and nonlinear components and circuits.

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Specialized circuit analysis methods: Thévenin’s, Norton’s, maximum power transfer, source transformation and superposition are applied to circuits. The application of nodal and mesh analyses to determine all voltages and currents in a circuit is developed.

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