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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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[EEP - Electrical Engineering Portal | Energy and Power For All](#)

Engineering is the use of scientific principles to design and build machines, structures, and other items, including bridges, tunnels, roads, vehicles, and buildings. The discipline of engineering encompasses a broad range of more specialized fields of engineering, each with a more specific emphasis on particular areas of applied mathematics, applied science, and types of application.

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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.

[Kirchhoff's Laws - Kirchhoff's Current and Kirchhoff's ...](#)

Integrated Bachelor of Science/Master of Science Program. The integrated B.S./M.S. (Bachelor of Science and Master of Science) program administered by the Department of Electrical and Computer Engineering is designed to make possible for highly motivated and qualified B.S. students to obtain both an undergraduate degree and an advanced degree within an accelerated timeline.

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Principles of circuit simulation: DC/AC/TR analysis. Basic analog optimization tasks: worst-case analysis, yield analysis, nominal design, design centering. Basic principles of optimization: optimality conditions, line search, Nelder-Mead method, Newton approach, Conjugate Gradient approach, Quadratic Programming, Sequential Quadratic Programming.

["Timing Paths" : Static Timing Analysis \(STA\) basic \(Part ...](#)

CSE 1205. INTRODUCTION TO COMPUTER SCIENCE AND ENGINEERING. 2 Hours. A practical approach to hands-on computer hardware and software systems in a laboratory environment. Students will be exposed to basic design concepts using off-the-shelf hardware components and tools that enable the design of complex systems.

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The Electrical and Computer Engineering (ECE) department provides high-quality degree programs that emphasize fundamental principles, respond to the changing demands and opportunities of new technology, challenge the exceptional abilities of Rice students, and prepare students for roles of leadership in their chosen careers.

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and electrical engineering will be able to devise more ideas of possible solutions and be able to better evaluate the feasibility of each idea. A basic understanding of electronic circuits is important even if the designer does not intend to become a proficient electrical engineer. In many real-life engineering

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Passive components, Signal sources, DC circuit analysis, Time domain response of RC and RL circuits, Discrete electronic devices, Sinusoidal steady state response, phasor, impedance, Two port network, basic feedback theory, frequency response, transfer function, DC Power supply, BJT biasing, Simple transistor

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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.