

Electric Circuits, Revised Printing

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Reviews

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Prentice Hall, 2000. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: (NOTE: Each chapter includes one or two Practical Perspectives, a Summary, and Problems.) 1. Circuit Variables. Electrical Engineering: An Overview. The International System of Units. Circuit Analysis: An Overview. Voltage and Current. The Ideal Basic Circuit Element. Power and Energy. 2. Circuit Elements. Voltage and Current Sources. Electrical Resistance (Ohm"s Law). Construction of a Circuit Model. Kirchhoff"s Laws. Analysis of a Circuit Containing Dependent Sources. 3. Simple Resistive Circuits. Resistors in Series. Resistors in Parallel. The Voltage-Divider Circuit. The Current-Divider Circuit. Measuring Voltage and Current. The Wheatstone Bridge. Delta-to-Wye (Pi-to-Tee) Equivalent Circuits. 4. Techniques of Circuit Analysis. Terminology. Introduction to the Node-Voltage Method. The Node-Voltage Method and Dependent Sources. The Node-Voltage Method: Some Special Cases. Introduction to the Mesh-Current Method. The Mesh-Current Method and Dependent Sources. The Mesh-Current Method: Some Special Cases. The Node-Voltage Method Versus the Mesh-Current Method. Source Transformations. Thevenin and Norton Equivalents. More on Deriving a Thevenin Equivalent. Maximum Power Transfer. Superposition. 5. The Operational Amplifier. Operational Amplifier Terminals. Terminal Voltages Currents. The Inverting-Amplifier Circuit. The Summing-Amplifier Circuit. The Noninverting-Amplifier Circuit. The Difference-Amplifier Circuit. A More Realistic Model for the Operational Amplifier. 6. Inductance, Capacitance, and Mutual Inductance. The Inductor. The Capacitor. Series-Parallel Combinations of Inductance and Capacitance. Mutual Inductance. A Closer Look at Mutual Inductance. 7. Response of First-Order RL and RC Circuits. The Natural Response of an RL Circuit. The Natural Response of an RC Circuit. The Step Response of RL and RC Circuits. A General Solution for Step and Natural Responses. Sequential Switching. Unbounded Response. The Integrating Amplifier. 8. Natural and Step Responses of RLC Circuits. Introduction to the Natural Response of a Parallel RLC Circuit. The Forms of the Natural Response of a Parallel RLC Circuit....

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