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Department of Electrical and Electronic Engineering

Introduction to Electric Circuits

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In an electronic circuit, the electromagnetic problem of voltages at arbitrary points in space is typically simplified to voltages between nodes of circuit components such as resistors, capacitors, and transistors. Figure 1.1: Voltage V_1 is the electrical potential gained by moving charge Q_1 in an electric field.

Fundamentals of Electronic Circuit Design

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Circuits | Unit 3: Circuits | Introduction to Electrical

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Fundamentals of Electrical Engineering I

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â€¢ To vary the resistance in an electrical circuit, we use a variable resistor. â€¢ This is a normal resistor with an additional arm contact that can move along the resistive material and tap off the desired resistance.

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Chapter 6 Circuits 6.01â€” Spring 2011â€” April 25, 2011 233 Chapter 6 Circuits 6.1 What is a circuit? In conventional English, a circuit is a path or route that starts at one place and ultimately returns to that same place. The engineering sense of the word is similar. In electronics, a circuit is a closed path through which electrical currents can flow. The flow of electrical current ...

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