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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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1.1 Electrical Engineering 2 1.2 Electrical Engineering as a Foundation for the Design ... Chapter 2

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Page 2 - 4 Electrical Principles-Correspondence Version HOW A CIRCUIT WORKS To illustrate how a circuit works, we will use a conveyor belt analogy. The conveyor belt moves energy (coal) at an invariant speed from the coal mine to the power plant. Figure 2.4 Conveyor belt analogy of an electrical circuit coal mine = power source conveyor belt ...

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