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Essential Electronics Series Introduction to Electric Circuits Eur Ing R G Poweli Principal Lecturer  
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.

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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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