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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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Laboratory Exercises for Fundamentals of Analog Circuits

Notes on Analog Circuits Digital circuits deal, in principle, with only two values of voltage, whereas analog circuits process signals with continuous variation of voltage. In fact, of course, no macroscopic signal is truly quantized, so even a digital circuit designer needs some familiarity with analog electronics.

Notes on Analog Circuits - Rice University

comprise circuits that perform interesting and useful functions, and how circuits form sophisticated systems, we begin to see the beauty of microelectronics and appreciate the reasons for its explosive growth. This chapter gives an overview of microelectronics so as to provide a context for the material presented in this

book.

Introduction to Microelectronics - QIAU

Analog Fundamentals: A Systems Approach provides unique coverage of analog devices and circuits with a systems emphasis. Discrete linear devices, operational amplifiers, and other linear integrated circuits, are all covered with less emphasis on the individual device, and more discussion on how these devices are incorporated into larger circuits and systems.

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