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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

electronic circuits and systems, transfer functions, sinusoidal steady state response. Time domain models of linear and nonlinear electronic circuits, linearization, small signal analysis. Stability and feedback circuits. Operational amplifiers, device models, linear and nonlinear applications, transfer function realizations.

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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.

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1 Understanding Basic Analogâ€”Circuit Equations By Ron Mancini ABSTRACT This application report provides a basic understanding of analog circuit equations.

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Review basic analog circuit fundamentals through this tutorial, which covers analog circuit concepts explaining Ohmâ€™s law, capacitance calculations, inductance calculations, series and parallel configurations for capacitance and inductance, and RC filters.

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3 1/22/07 Malvino, Albert: Semiconductor Circuit Approximations, 4th Ed., Glencoe McGraw-Hill, 1996 Neamen, Donald A.: Electronic Circuit Analysis & Design, 2nd Ed, McGraw-Hill, 2001

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