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Chapter 2 of this book the ingredients of electric circuits are introduced and the circuit elements having properties called capacitance and inductance are associated with electric and magnetic fields respectively.

### **Introduction to Electric Circuits**

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Introduction to Electric Circuits

### **Introduction to Electric Circuits**

ELECTRIC CIRCUITS Electric circuits or networks are the assemblage of devices and or equipment needed to connect the source of energy to the user or the device which exploits it.

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electronic circuits will allow the mechanical engineer to evaluate whether or not a given electrical specification is reasonable and feasible. The following text is designed to provide an efficient introduction to electronic circuit design. The text is divided into two parts. Part I is a barebones introduction to

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Introduction to circuits, including several methods for analyzing circuits (Kirchhoff's current and voltage laws, node voltages, and loop currents) and common patterns that simplify analysis. Lecture handout (PDF) Lecture slides (PDF) Recitation Video. These videos have been developed for OCW Scholar, and are designed to supplement the lecture videos.

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Chapter 1 Introduction 1.1 Themes 1 From its beginnings in the late nineteenth century, electrical engineering has blossomed from focusing on electrical circuits for power, telegraphy and telephony to focusing on a much broader range of disciplines.

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1 CHAPTER 1. Circuit Variables AP 1.3 Remember from Eq. (1.2), current is the time rate of change of charge, or  $i = dq/dt$  In this problem, we are given the current and asked to find the total

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