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The electrical energy consumed in a circuit is the loss of electrical potential energy in maintaining current in the circuit. Thus in the figure above, as the charge q = V = V / t joules. This loss of electric potential energy is convened into heat.

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Where I is the current through the conductor in units of amperes, V is the voltage measured across the conductor in units of volts, and R is the resistance of the conductor in units of ohms. More specifically, Ohm's law states that the R in this relation is constant, independent of the current.

### **Basic Electrical Theory: The Fundamental Laws of Electricity**

BASIC ELECTRICAL ENGINEERING. Author. V. N. Mittle. Publisher. Mcgraw-Hill Book Comp., 1990. ISBN. 0074516329, 9780074516324. Length. 697 pages.

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This voltage drop principle leads to another important law in basic electrical engineering, Kirchoff's Voltage Law (KVL). This law states that the algebraic sum of the voltages in a closed loop is always equal to zero. If we only knew the supply potential and the voltage drop of R1, we could use KVL to find the other voltage drop.

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#### **Virtual Labs - Electrical Engineering**

Basic Electrical Engineering V.U.Bakshi U.A.Bakshi Limited preview - 2007. View all » ...

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Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

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