



# CIRCUIT ANALYSIS

## INTRODUCTION TO AC AND DC CIRCUIT ANALYSIS

### Definitions

- ELECTRICAL CHARGE** has four characteristics:
  - Its magnitude is measured in coulombs (C). The charge carried by an electron is  $q_e = -1.60 \times 10^{-19}$  C.
  - A proton has the same amount of charge, but with positive polarity.
  - Charges are, therefore, of two types: positive and negative.
  - Charges exist in discrete, integral multiples of  $8.4 \times 10^{-19}$  C.
  - Charges are conserved: They can be neither created nor destroyed.
- CURRENT**. In an electric circuit, the charges move along specified, closed paths. The motion of charges constitutes an electric conduction current. Current is measured in amperes (ampere). That is, one ampere is the current that flows when one coulomb of charge flows per second. Or, current ( $I$ ) in amperes is:
 
$$I(t) = \frac{dq(t)}{dt}$$
 amperes, where  $q(t)$  is the charge in coulombs, and  $t$  is the time in seconds.
- Conventions**: A negative quantity of charge traveling from B to A along a conductor is equivalent to a positive quantity of charge going from A to B. Hence, current is a vector.
- Unidirectional transfer of electric charge through a conductor constitutes the direct electric current, or dc. This is in contrast to ac (alternating) currents which implies a time-reversal of direction of current such as in sinusoidal waves.
- VOLTAGE**: Voltage difference (also known as potential difference) between two points is defined as the work (per unit in joules) required to move a unit charge from one point to the other. The unit of potential difference is the volt (V). Voltage ( $V$ ) can be positive or negative.

$$\text{Note that: } V(t) = \frac{dq(t)}{dt} \text{ volts}$$

- POWER**: Power ( $P$ ) is the rate of doing work or the rate of change of energy. The electrical unit of power is the watt (W).

$$P(t) = \frac{dq(t)}{dt} \text{ positive or watts}$$

$$\text{Note: } P(t) \text{ if } V = \frac{dq(t)}{dt} \text{ if } V = \frac{dq}{dt} \text{ if } V = \frac{dq}{dt} = P(t)$$

- power ( $P$ ) is subject to the following sign convention: Whenever the reference direction for the current in an element is in the direction of the voltage drop across the element, use the plus (+) sign. That is, the current must enter the positive terminal to use the above formula. Otherwise use minus (-). If  $P(t) > 0$ , then the element delivers power. If  $P(t) < 0$ , then the element absorbs power. See the following examples:

- In Fig. 1(a) the element is consuming/absorbing 10W of power, and in Fig. 1(b) the element is delivering 10W.

**FACT**: The total power delivered must equal the total power absorbed in any circuit.

**BRANCH**: A branch is an element (for example, resistor, source, etc.).

**NODE**: A node is a junction where two or more elements come together.

**GROUND**: A ground is the voltage reference point which has zero potential.

### Ideal Independent Sources

#### IDEAL INDEPENDENT VOLTAGE SOURCE

This element maintains a specified voltage between its terminals regardless of the rest of the circuit where it is inserted. The voltage is completely independent of the current through the element. The symbol for the element is shown in Fig. 2.



From A to B,  $V$  is higher than from B

Fig. 2 shows other variations of Fig. 2.

Fig. 3(a) shows an ideal battery which has a constant voltage with respect to time and (b) shows a sinusoidal voltage source which swings up and down between the peak values  $+V_m$  and  $-V_m$  producing an alternating current.



From A to B,  $V_m$  is higher than from B

#### IDEAL INDEPENDENT CURRENT SOURCE

This element maintains a specified current through it independent of the voltage across it. See Fig. 4.



From B to A,  $I$  is higher than from A

### Ideal Dependent Sources

#### IDEAL DEPENDENT VOLTAGE SOURCE

In a dependent (or controlled) voltage source, the voltage across the source depends upon the voltage or current across some other element in the network. There are two types of controlled voltage sources:

- voltage controlled voltage source:  
 $V = \alpha V_x$ , where  $V_x$  is a voltage somewhere else in the circuit and  $\alpha$  is a constant. See Fig. 5.



From B to A,  $V$  is higher than from A

- current controlled voltage source:  
 $V = \beta I_x$ , where  $I_x$  is a current somewhere else in the circuit and  $\beta$  is a constant. See Fig. 6.



From B to A,  $V$  is higher than from A

#### IDEAL DEPENDENT CURRENT SOURCE

In a dependent (or controlled) current source, the current through the source depends upon the voltage or current through another element in the network. There are two types of controlled current sources:

- voltage controlled current source:  
 $I = \alpha V_x$ , where  $V_x$  is a voltage somewhere else in the circuit and  $\alpha$  is a constant. See Fig. 7.



From B to A,  $I$  is higher than from A

- current controlled current source:  
 $I = \beta I_x$ , where  $I_x$  is a current somewhere else in the circuit and  $\beta$  is a constant. See Fig. 8.



From B to A,  $I$  is higher than from A

### Resistance & Conductance

**RESISTANCE**: A resistor is a circuit element used to model the resistance to the flow of electrical charge. The unit of resistance is the ohm denoted by  $\Omega$ .

**CONDUCTANCE**: Conductance ( $G$ ) is defined as the reciprocal of resistance; that is,  $G = 1/R$ . Conductance is measured in siemens (S).



Resistor Symbols

### Ohm's Law

**OHM'S LAW** (at a given temperature) is given by  $V = IR$  volts, and is based on the following convention:  $V = IR$  applies whenever the reference direction for the current in the resistor is in the direction of the voltage drop across the resistor. Otherwise use  $V = -IR$ .



Ohm's Law

### Open & Short Circuit

**OPEN CIRCUIT**: The graphical representation of an "open circuit" ( $IR = 0$ ) is shown in Fig. 11. Note that the current can't flow due to infinite resistance. The terminals maintain an open circuit voltage.



Open Circuit

**SHORT CIRCUIT**: The graphical representation of a "short circuit" ( $IR = 0$ ) is shown in Fig. 12. Note that a short circuit can be considered as a piece of wire assumed as a perfect conductor. Voltage = 0, resistance = 0. Short circuit current flows in the loop.



Short Circuit

### Kirchhoff's Laws

**KIRCHHOFF'S VOLTAGE LAW (KVL)**: The algebraic sum of all the voltages around any closed path in a circuit equals zero for every instant of time.

- **Common Conventions**:

To avoid sign errors regarding KVL, use the voltage polarity sign of the element which you first encounter in passing by that element. Example: If in Fig. 13 we choose to take the loop clockwise, we fit the negative sign of the voltage source and the positive sign of  $V_2$ . Thus  $-V_1 + V_2 = 0$ .



Kirchhoff's Voltage Law

**KIRCHHOFF'S CURRENT LAW (KCL)**: The algebraic sum of all the currents at any node in a circuit equals zero for every instant of time.

- **Common Conventions**:

Currents entering will be positive. Currents leaving will be negative. (Opposite method is also permitted if you are consistent.) Example: In Fig. 14, KCL for the node is  $-12.4 + 18.4 = 0$ .



Kirchhoff's Current Law



# Circuit Study Guide

**Michael D. Ciletti**

## Circuit Study Guide:

**Circuit Analysis (Speedy Study Guide)** Speedy Publishing, 2014-12-07 Electrical wiring and circuitry can be a very exacting undertaking with the great potential for negative results occurring if a circuit's connections are off by even one space. A circuit analysis guide provides a breakdown of every possible symbol and mechanism within a circuit diagram in order to educate electricians, engineers, and so on about the proper ways to align a circuit and what common symbols to pay extra focus upon. Studying it and class texts should lead to excellence.

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**Student Study Guide for Electric Circuits** James W. Nilsson, Susan A. Riedel, 2014-01-01

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### *Schaum's Outline of Basic Circuit Analysis*

John O'Malley, 1992 Confusing Textbooks Missed Lectures Not Enough Time Fortunately for you, there's Schaum's Outlines. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge. Coverage of the

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*Introduction to Circuit Analysis and Design and Circuit Master* Michael D. Ciletti, 1995-06-08 Ciletti has established an entirely new standard of quality and coverage for the introductory circuits text. This superbly organized work offers a unique emphasis on the physical behavior of circuits as well as mathematical analysis. Along with traditional coverage it presents a more thorough detailed treatment of physical design than is offered in any other book at this college level. The inclusion of advanced optional topics provides instructors with unprecedented flexibility for the two semester circuits course. This text satisfies the latest ABET recommendations in two important and unique respects. First in its practical design emphasis and second in its integration of computers into the introductory circuits course. It is the first text of its kind to offer its own accompanying software The Circuit Master program *3,000 Solved Problems in Electrical Circuits* Syed A.

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**Cd-Rom to Accompany Study Guide to Basic Engineering Circuit Analysis** Bill Dillard, 1999 **Study Guide and Exercises for Welding Processes and Power Sources** Edward R. Pierre, 1985 **Basic Engineering Circuit Analysis**,

**Study Guide** J. David Irwin, Chwan-Hwa Wu, 1999-12-22 This popular introductory circuits text known for its learn by doing format has been further improved with the additions of new problem solving techniques and other learning enhancements. The presentations of the fundamental principles are replete with examples drill problems extension exercises and design problems.

**Physics, Study Guide** John D. Cutnell, Kenneth W. Johnson, 1992-02-26 This Second Edition designed for a one year course in college physics includes the following new features. Integration of Concepts explores the common ground between fundamental ideas in the current chapter and previous ones. Problem Solving Insight provides reinforcement and emphasizes issues that students need to recognize as important and a reasoning step which appears before numerical solutions in each example. Enhanced by hundreds of applications to biology medicine architecture and technology. Worked out examples and homework problems have been substantially increased and full color reproductions added to facilitate students learning ability.

**Student Study Guide & Selected Solutions Manual** David D. Reid, 2007 **Basic Engineering Circuit**

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**Amateur Radio Advanced Class License Study Guide** James Kyle, Ken W. Sessions, 1975

**Circuit Master** Michael D. Ciletti, 1995-06-08

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