

## Chapter 2: Fundamentals of Electrical Circuits – Instructor Notes

Chapter 2 develops the foundations for the first part of the book. Coverage of the entire chapter would be typical in an introductory course. The first four sections provide the basic definitions (Section 2.1) and cover Kirchhoff's Laws and the passive sign convention (Sections 2.2, 2.3 And 2.4); A special feature, *Focus on Methodology: The Passive Sign Convention* (p. 39) and two examples illustrate this very important topic. A second feature, that will recur throughout the first six chapters, is presented in the form of sidebars. *Make The Connection: Mechanical Analog of Voltage Sources* (p. 24) and *Make The Connection: Hydraulic Analog of Current Sources* (p. 26) present the concept of analogies between electrical and other physical domains.

Sections 2.5 and 2.6 introduce the  $i$ - $v$  characteristic and the resistance element. Tables 2.1 and 2.2 on p. 45 summarize the resistivity of common materials and standard resistor values; Table 2.3 on p. 48 provides the resistance of copper wire for various gauges. The sidebar *Make The Connection: Electric Circuit Analog of Hydraulic Systems – Fluid Resistance* (p. 44) continues the electric-hydraulic system analogy.

Finally, Sections 2.7 and 2.8 introduce some basic but important concepts related to ideal and non-ideal current sources, and measuring instruments. In the context of measuring instruments, Chapter 2 introduces a third feature of this book, the *Focus on Measurements* boxes, referenced in the next paragraph.

The instructor will find that although the material in Chapter 2 is quite basic, it is possible to give an applied flavor to the subject matter by emphasizing a few selected topics in the examples presented in class. In particular, a lecture could be devoted to *resistance devices*, including the resistive displacement transducer of *Focus on Measurements: Resistive throttle position sensor* (pp. 56-59), the resistance strain gauges of *Focus on Measurements: Resistance strain gauges* (pp. 58-59), and *Focus on Measurements: The Wheatstone bridge and force measurements* (pp. 59-60). The instructor wishing to gain a more in-depth understanding of resistance strain gauges will find a detailed analysis in the references<sup>1</sup>.

Early motivation for the application of circuit analysis to problems of practical interest to the non-electrical engineer can be found in the *Focus on Measurements: The Wheatstone bridge and force measurements*. The Wheatstone bridge material can also serve as an introduction to a laboratory experiment on strain gauges and the measurement of force (see, for example<sup>2</sup>). Finally, the material on practical measuring instruments in Section 2.8b can also motivate a number of useful examples.

The homework problems include a variety of practical examples, with emphasis on instrumentation. Problem 2.51 illustrates analysis related to fuses; problems 2.65 relates to wire gauges; problem 2.70 discusses the thermistor; problems 2.71 discusses moving coil meters; problems 2.79 and 2.80 illustrate calculations related to strain gauge bridges; a variety of problems related to practical measuring devices are also included in the last section. The 5<sup>th</sup> Edition of this book includes 26 new problems; some of the 4<sup>th</sup> Edition problems were removed, increasing the end-of-chapter problem count from 66 to 80.

It has been the author's experience that providing the students with an early introduction to practical applications of electrical engineering to their own disciplines can increase the interest level in the course significantly.

### Learning Objectives for Chapter 2

1. Identify the principal *elements of electrical circuits*: nodes, loops, meshes, branches, and voltage and current sources.
2. Apply *Kirchhoff's Laws* to simple electrical circuits and derive the basic circuit equations.
3. Apply the *passive sign convention* and compute *power* dissipated by circuit elements.
4. Apply the *voltage and current divider laws* to calculate unknown variables in simple series, parallel and series-parallel circuits.
5. Understand the rules for connecting *electrical measuring instruments* to electrical circuits for the measurement of voltage, current, and power.

<sup>1</sup> E. O. Doebelin, *Measurement Systems – Application and Design*, 4<sup>th</sup> Edition, McGraw-Hill, New York, 1990.

<sup>2</sup> G. Rizzoni, *A Practical Introduction to Electronic Instrumentation*, 3<sup>rd</sup> Edition, Kendall-Hunt, 1998.

# Chapter Fundamentals Of Electric Circuits Instructor Notes

**N Colangelo**



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## **Table of Contents Chapter Fundamentals Of Electric Circuits Instructor Notes**

1. Understanding the eBook Chapter Fundamentals Of Electric Circuits Instructor Notes
  - The Rise of Digital Reading Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter Fundamentals Of Electric Circuits Instructor Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Personalized Recommendations
  - Chapter Fundamentals Of Electric Circuits Instructor Notes User Reviews and Ratings
  - Chapter Fundamentals Of Electric Circuits Instructor Notes and Bestseller Lists
5. Accessing Chapter Fundamentals Of Electric Circuits Instructor Notes Free and Paid eBooks

- Chapter Fundamentals Of Electric Circuits Instructor Notes Public Domain eBooks
- Chapter Fundamentals Of Electric Circuits Instructor Notes eBook Subscription Services
- Chapter Fundamentals Of Electric Circuits Instructor Notes Budget-Friendly Options
- 6. Navigating Chapter Fundamentals Of Electric Circuits Instructor Notes eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter Fundamentals Of Electric Circuits Instructor Notes Compatibility with Devices
  - Chapter Fundamentals Of Electric Circuits Instructor Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Highlighting and Note-Taking Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Interactive Elements Chapter Fundamentals Of Electric Circuits Instructor Notes
- 8. Staying Engaged with Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter Fundamentals Of Electric Circuits Instructor Notes
- 9. Balancing eBooks and Physical Books Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter Fundamentals Of Electric Circuits Instructor Notes
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Setting Reading Goals Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Fact-Checking eBook Content of Chapter Fundamentals Of Electric Circuits Instructor Notes
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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