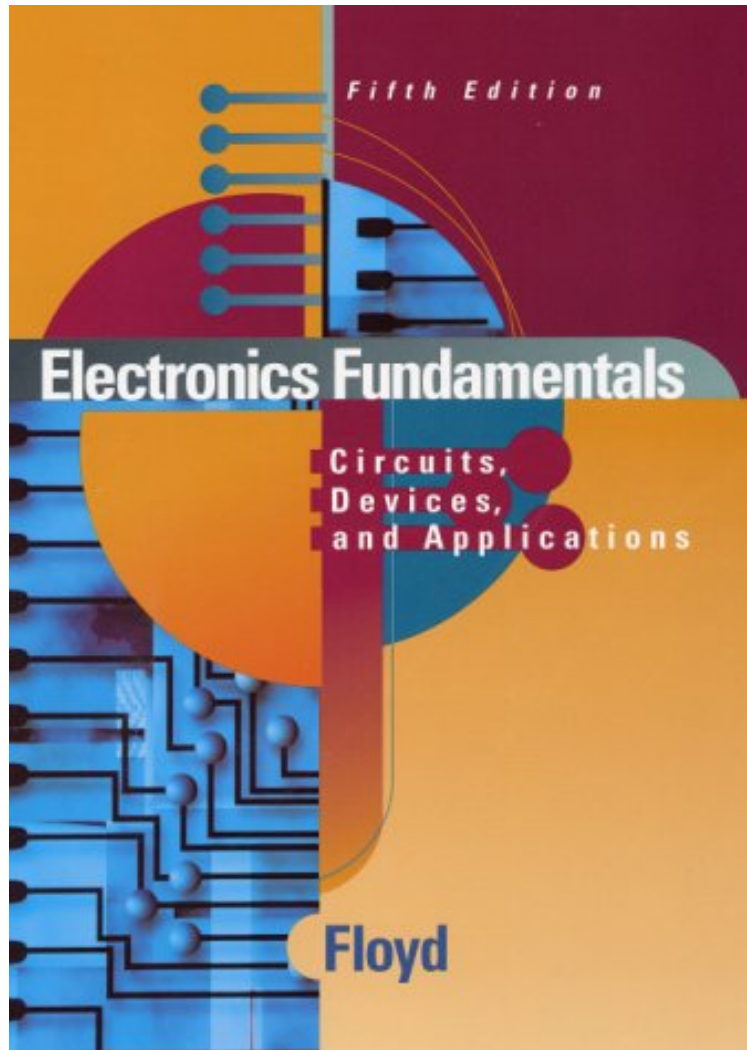


(Download ebook) Electronics Fundamentals: Circuits, Devices, and Applications (5th Edition)

Electronics Fundamentals: Circuits, Devices, and Applications (5th Edition)

Thomas L. Floyd

ePub | *DOC | audiobook | ebooks | Download PDF



DOWNLOAD



READ ONLINE

#929489 in Books 2000-07-11 Ingredients: Example Ingredients Original language: English PDF # 1 11.25 x 8.75 x 1.25l, 5.38 #File Name: 01308523681100 pages | File size: 65.Mb

Thomas L. Floyd : Electronics Fundamentals: Circuits, Devices, and Applications (5th Edition) before purchasing it in order to gage whether or not it would be worth my time, and all praised Electronics Fundamentals: Circuits, Devices, and Applications (5th Edition):

1 of 1 people found the following review helpful. Good and fast serviceBy Firebird_400I had signed out the 6th edition version of this book from my local library and couldn't finish it in time so I wanted an affordable copy I could mark up if I wanted.This is one of the better books in my opinion when it comes to learning electronics. Years ago while taking an electronics course we used the Thomas Floyd text book from that era, the instructor dubbed it the

"PinkFloyd Book", it had a pink cover at that time. No CD was included in my copy but wasn't expecting it. The condition of the book is good actually better than I expected, no markings or ripped pages and I received it within a few days of ordering. The seller included a thank you card, a nice touch. I forgot to mention the book was purchased used from Lexco Books and a great buy at \$12.00 of 0 people found the following review helpful. great book for the price and the information provided By Lee Kaiser Always looking for the fundamental books to teach my kids before they are corrupted by a rouge mind. 0 of 0 people found the following review helpful. I bought this book to as a refresher and found it to be an excellent overview text By DL in CT Having a BSEE from 1980 but never having worked as an EE, I bought this book to as a refresher and found it to be an excellent overview text. It progresses the usual way from the typical electrical fundamentals through basic component types to analyzing circuit parameters to some common circuit applications. Floyd has an easily readable style which provides the reader a solid general understanding of the components and concepts without getting too mathematical in trying to cover all theoretical possibilities. This book is more than plenty thorough for a technician course and provides a solid foundation for anyone to dive deeper in a desired area with a more narrowly scoped, more intense textbook.

For introductory courses in Electric Circuits, and Intro to DC/AC Circuits. This acclaimed text offers a thorough, practical introduction to dc/ac analysis geared to the technician-level student --and written at a level at which these students are comfortable! Floyd's comprehensive treatment focuses on fundamental principles and their applications to solving real circuit analysis problems, limiting mathematics to what's needed for understanding. Floyd uses straightforward explanations and a strong troubleshooting emphasis to give technician-level students the problem-solving experience they need in a style that makes complex material thoroughly understandable.

From the Publisher All of the excellent circuits coverage of this author's Electric Circuits Fundamentals, Third Edition PLUS six full chapters on devices! Floyd's comprehensive treatment of electric circuits fundamentals is here teamed with six chapters devoted specifically to the type of electronic devices, and applications, students are likely to encounter on the job. The focus is on fundamental principles and solving real circuit analysis problems. As with Floyd's other texts, mathematics is limited to what's needed for understanding, while straightforward explanations and a strong trouble-shooting emphasis offer the problem-solving experience students need. From the Back Cover Margin icons indicate text circuits that are rendered in Electronics Workbench and CircuitMaker on the CD-ROM packaged with each text. New EWB/CircuitMaker Troubleshooting Problems. New Safety Notes indicate key information that students can transfer to their laboratory experience. Capacitors (Chapter 9) and RC circuits (Chapter 10) are covered in sequence, followed by inductors (Chapter 11), RL circuits (Chapter 12), and RLC circuits and resonance (Chapter 13). Transformers (Chapter 14) now follows RLC circuits and resonance. A new, easier-to-read text design and use of color help students locate key information for review. Chapter Objectives, an Introduction, Key Terms, and Application Assignments precede each chapter to offer students an overview of the applications they will be able to complete by chapter's end. Sections follow each chapter section to reinforce concepts and check for understanding. Numerous in-chapter examples illustrate a variety of areas where concepts can be applied. End-of-chapter problems are separated by chapters section and level of difficulty, allowing students to progress with their problem-solving skills in a step-by-step manner. Excerpt. Reprinted by permission. All rights reserved. Preface This fifth edition of Electric Circuits Fundamentals provides a comprehensive coverage of basic electrical and electronic concepts, practical applications, and troubleshooting. The organization has been improved for a smoother and more logical flow of the material in certain areas. In this edition, many topics have been strengthened and improved, and some new topics and features have been added. Also, a completely new text design and layout enhance the text's appearance and useability. This textbook is divided into two parts: DC Circuits in Chapters 1 through 7 and AC Circuits in Chapters 8 through 15. **NEW FEATURES AND IMPROVEMENTS** Engineering Notation: Chapter 1 includes an expanded coverage of engineering notation and the use of the calculator (TI-86) in scientific and engineering notation. Electrical Safety: Chapter 2 introduces electrical safety. It is supplemented by a feature called Safety Point found throughout portions of the text. Safety Points are identified by a special logo and design treatment. Troubleshooting: An expanded coverage of troubleshooting begins in Section 3-8 with an introduction to troubleshooting. A systematic approach called the APM (analysis, planning, and measurement) method is introduced and used in many of the troubleshooting sections and examples. A new logo identifies troubleshooting features. Circuit Simulation Tutorials: A website tutorial associated with most chapters can be downloaded for student use. These tutorials introduce students to elements of Electronics Workbench, as needed, on a chapter-by-chapter basis. These tutorials may be found at <http://www.prenhall.com/floyd>. Circuit Simulation Problems: A new set of problems at the end of most chapters reference circuits simulated with both Electronics Workbench and CircuitMaker on the CD-ROM that accompanies the text. Many of these circuits have hidden faults that the student must locate using troubleshooting skills. Results are provided in a password-protected file on the CD-ROM. Circuit simulation problems and exercises on the CD-ROM are indicated by a special logo. Hands-On Tips: Called HOTips for short, this feature provides useful and practical information interspersed throughout the book. They generally relate to the text coverage but can be skipped over

without affecting an understanding of chapter material. HOTips are identified by a special logo and design treatment. Biographies: Brief biographies of those after whom major electrical and magnetic units have been named are located near the point where the unit is introduced. Each biography is identified by a special design treatment. Key Terms: Terms identified as the most important in each chapter are listed as key terms on the chapter opener. Within the chapter, key terms are highlighted in color and with a special icon. Each Key Term is also defined in the Glossary. Chapter Reorganization: Several chapters in the AC part of the text have been rearranged to provide a smoother and more logical flow of topics. The new chapter sequence is as follows: Chapter 9: Capacitors, Chapter 10: RC Circuits, Chapter 11: Inductors, Chapter 12: RL Circuits, Chapter 13: RLC Circuits and Resonance, and Chapter 14: Transformers. ADDITIONAL FEATURES Full-color format A two-page chapter opener for each chapter with an introduction, chapter outline, chapter objectives, key terms, and application assignment preview An introduction and list of objectives at the beginning of each section within a chapter keyed to the chapter objectives An Application Assignment at the end of each chapter (except Chapter 1) Many high-quality illustrations Numerous worked examples A Related Problem in each worked example with answers at the end of the chapter An Electronics Workbench/CircuitMaker simulation on CD-ROM for selected worked examples An Electronics Workbench/CircuitMaker exercise in selected Application Assignments Sections with answers at the end of the chapter Troubleshooting section in many of the chapters Self-test in each chapter with answers at the end of the chapter Problem set at the end of each chapter divided by chapter sections and organized into basic and advanced categories. Answers to odd-numbered problems are provided at the end of the book. A comprehensive Glossary at the end of the book. Terms that appear boldface or in color in the text are defined in the glossary. All Standard resistor and capacitor values are used throughout. ACCOMPANYING STUDENT RESOURCES NewStudent Workbook by James K. Gee. Features step-by-step explanations of textbook material, additional examples with solutions, explanatory tables, reminders, and a Problem Set for every textbook section. Odd-numbered answers to Problem Set questions are included at the end of the Student Workbook. Gee's Student Workbook is tied section by section to the Floyd text, thus enabling students to easily locate specific sections with which they are having difficulty or would like additional practice. (ISBN 013-019392-5) NewStudyWizard e-tutorial CD-ROM. Students can enhance their understanding of each chapter by answering the review questions and testing their knowledge of the terminology with StudyWizard. This program is available separately from the text. Contact your local bookstore for more information. NewElectronics Workbench/CircuitMaker CD-ROM. Packaged with each text, this software includes simulation circuits for selected examples and end-of-chapter problems and a Student Version of CircuitMaker. Electronics Workbench software can be obtained through your local bookstore, or by contacting Electronics Workbench at 800-263-5552, or through their website at www.electronicsworkbench.com. Experiments in Electronics Fundamentals and Electric Circuits Fundamentals Fifth Edition, by David Buchla. (ISBN 0-13-017002-X) Companion Website (www.prenhall.com/floyd). This website offers students a free online study guide that they can check for conceptual understanding of key topics. It includes simulation tutorials in Electronics Workbench. Electronics Supersite (www.prenhall.com/electronics). Students will find additional troubleshooting exercises, links to industry sites, an interview with an electronics professional, and more. INSTRUCTOR RESOURCES NewPowerPoint CD-ROM. Contains slides featuring all figures from the text, of which 150 selected slides contain explanatory text to elaborate on the presented graphic. This CD-ROM also includes innovative PowerPoint slides for the lab manual by Dave Buchla. (ISBN 0-13-019386-0) Companion Website (www.prenhall.com/floyd). For the professor, this website offers the ability to post your syllabus online with our Syllabus Builder. This is a great solution for classes taught online, self-paced, or in any computer-assisted manner. Electronics Supersite (www.prenhall.com/electronics). Instructors will find the Prentice Hall Electronics Technology Journal, extra classroom resources, and all of the supplements for this text available online for easy access. Contact your local Prentice Hall sales representative for your "User Name" and "Passcode:" Online Course Support. If your program is offering your electronics course in a distance learning format, please contact your local Prentice Hall sales representative for a list of product solutions. Instructor's Resource Manual. Includes solutions to chapter problems, solutions to Application Assignments, a section relating SCANS objectives to textbook coverage, and a CEMA skills list. (ISBN 0-13-019387-9) Lab Solutions Manual. Includes worked-out lab results for the Lab Manual by Buchla. (ISBN 0-13-019391-7) Test Item File. This edition of the Test Item File has been checked for accuracy and features 166 new questions. (ISBN 0-13-019388-7) Prentice Hall Test Manager. This is a CD-ROM version of the Test Item File. (ISBN 0-13-019389-5) ILLUSTRATION OF CHAPTER FEATURES Chapter Opener: Each chapter begins with a two-page spread, as shown in Figure P-1. The left page includes the chapter number and title, a chapter introduction, and a list of sections in the chapter. The right page has a list of chapter objectives, a list of key terms, an application assignment preview, and a website reference for circuit simulation tutorials and other helpful material. Section Opener: Each section in a chapter begins with a brief introduction that includes a general overview and section objectives as related to the chapter objectives. An example is shown in Figure P-2. Section : Each section in a chapter ends with a review consisting of questions or exercises that emphasize the main concepts presented in the section. This is also shown in Figure P-2. The answers to the Section s are at the end of the chapter. Worked Examples, Related Problems, and EWB/CircuitMaker Exercise: Numerous

worked examples help illustrate and clarify basic concepts or specific procedures. Each example ends with a Related Problem that reinforces or expands on the example by requiring the student to work through a problem similar to the example. Selected examples contain an EWB/CircuitMaker exercise keyed to the CD-ROM. A typical worked example with a related problem and an EWB/CircuitMaker exercise is shown in Figure P-3. Answers to Related Problems are at the end of the chapter. Troubleshooting Sections: Many chapters include a troubleshooting section that relates to the topics covered in the chapter and emphasizes logical thinking as well as a structured approach called APM (analysis, planning, and measurement). Particular troubleshooting methods such as half-splitting are applied. Application Assignment: Putting Your Knowledge to Work: Application Assignments are located at the end of each chapter (except Chapter 1) and are identified by a special photographic logo and colored background design. A practical application of the material covered in the chapter is presented. In a series of steps, the student is required to compare circuit layouts with a schematic, analyze circuits using concepts and theories learned in the chapter, and evaluate and/or troubleshoot circuits. A typical Application Assignment is shown in Figure P-4. The Application Assignments are optional and skipping over them does not affect any other coverage. Although they are not intended or designed for use as laboratory projects (except the laboratory of the mind), many of the application assignments use representations based on realistic printed circuit boards and instruments. Results and answers for the steps in the Application Assignments are provided in the Instructor's Resource Manual. Chapter End Matter: The following pedagogical features are found at the end of each chapter: Summary