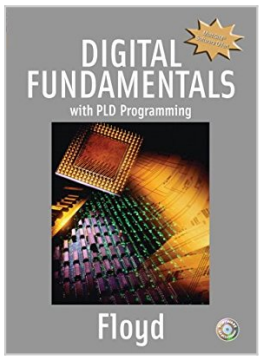

Digital Fundamentals with PLD Programming

By Thomas L. Floyd

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Reflecting lengthy experience in the engineering industry, this bestseller provides thorough, up-to-date coverage of digital fundamentals–from basic concepts to microprocessors, programmable logic, and digital signal processing. Floyd's acclaimed emphasis on *applications using real devices* and on *troubleshooting* gives users the problem-solving experience they'll need in their professional careers. Known for its clear, accurate explanations of theory supported by superior exercises and examples, this book's full-color format is packed with the visual aids today's learners need to grasp often complex concepts. **KEY TOPICS**: The book features a comprehensive review of fundamental topics and a unique introduction to two popular programmable logic software packages (Altera and Xilinx) and boundary scan software. For electronic technicians, system designers, engineers.

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Editorial Review

From the Publisher
This best selling book is well known for effectively combining a clear, highly-accurate explanation of theory--supported by superior exercises, examples, and illustrations--and an emphasis on troubleshooting and applications using actual devices. The Sixth Edition features stronger coverage of key areas (including two new chapters on Programmable Logic Devices), new exercises throughout the text, and an improved pedagogical framework. It includes two specially designed sections which link principles to real world practices--a Digital System Application section in every chapter, and practical Workbench activities throughout the text. Plus, Digital Fundamentals, Sixth Edition features an exciting full color format which uses color to enhance the instructional value of photographs, illustrations, tables, charts, and graphs. Throughout the text's coverage, the use of mathematics is limited to only those concepts that are needed for understanding. Floyd's acclaimed troubleshooting emphasis, as always, provides students with the problem solving experience they need to step out of the classroom and into a job!

From the Back Cover
Reflecting lengthy experience in the engineering industry, this bestseller provides thorough, up-to-date coverage of digital fundamentals-from basic concepts to microprocessors, programmable logic, and digital signal processing. Floyd's acclaimed emphasis on "applications using real devices" and on "troubleshooting" gives users the problem-solving experience they'll need in their professional careers. Known for its clear, accurate explanations of theory supported by superior exercises and examples, this book's full-color format is packed with the visual aids today's learners need to grasp often complex concepts. KEY TOPICS: The book features a comprehensive review of fundamental topics and a unique introduction to two popular programmable logic software packages (Altera and Xilinx) and boundary scan software. For electronic technicians, system designers, engineers.

This is the eighth edition of *Digital Fundamentals.* As with previous editions, it provides comprehensive coverage in a clear, straightforward, and well-illustrated format. Many topics have been strengthened or enhanced, and numerous improvements can be found throughout the book. This edition further reflects the shift from fixed-function logic devices to programmable logic devices (PLDs) by introducing programmable logic in Chapter 1 and continuing with a complete section in many chapters devoted to the topic of PLDs. As before, the programming of PLDs using the ABEL hardware description language is covered in two chapters. A new chapter on digital signal processing has been added. Also, a new text design and layout enhance the text's appearance and usability.

You will probably find more topics in this text than you can cover in a single course. This range of topics provides the flexibility to accommodate a variety of program requirements. For example, some of the design-oriented or system application topics may not be appropriate in some courses. Other programs may not cover PLDs or ABEL, while some may not have time to discuss microprocessors or digital signal processing. Also, there are programs that may not need to delve into the details of "inside-the-chip" circuitry. These and other topics can be omitted or covered lightly without affecting the coverage of the fundamental topics. A background in transistor circuits is not a prerequisite for this textbook.

New Features and Improvements

- Programmable logic devices (PLDs) are covered early in the text, beginning with an introduction in Chapter 1.
- CPLDs and FPGAs are introduced.
- An entire chapter is devoted to digital signal processing.
- EWB and Multisim circuit files on CD-ROM simulate many of the logic circuits that are illustrated in the text. These are indicated by the CD logo.
- Multisim files in addition to the EWB files are now included for the troubleshooting problems at the end of most chapters. These are indicated by the CD logo.
- Coverage of specific fixed-function logic devices and specific PLDs is set apart graphically in the text.
- Margin notes provide information in a very condensed form.
- Key terms are listed in each chapter opener. Within the chapter, the key terms are highlighted in boldface color. Each key term is defined at the end of the chapter, as well as at the end of the book in the comprehensive glossary along with other glossary terms.
- Error detection and correction codes are covered in Appendix B.
- Answer reminders are used to remind the student where to find the answers to the various exercises and problems throughout each chapter.

Additional Features

- Full-color format
- Chapter 15 is designed as a "floating chapter" to provide optional coverage of IC technology ("inside-the-chip circuitry") at any point in your course.
- Overview and objectives in each chapter opener.
- Introduction and objectives at the beginning of each section within a chapter.
- Review questions and exercises at the end of each section in a chapter.
- Related Problem in each worked example.
- Computer Notes interspersed throughout to provide interesting information about computer technology as it relates to the text coverage.
- Hands-On Tips interspersed throughout to provide useful and practical information.
- Digital System Application feature at the end of many chapters.
- Chapter summaries.
- Multiple choice self-test at the end of each chapter.
- Extensive sectionalized problem sets at the end of each chapter.
- Comprehensive glossary at the end of the book.
- A selection of device data sheets in Appendix A.

Users Review

From reader reviews:

Joshua Mendez:

The book untitled Digital Fundamentals with PLD Programming is the reserve that recommended to you to see. You can see the quality of the e-book content that will be shown to anyone. The language that publisher use to explained their way of doing something is easily to understand. The article author was did a lot of exploration when write the book, and so the information that they share to you is absolutely accurate. You also will get the e-book of Digital Fundamentals with PLD Programming from the publisher to make you far more enjoy free time.

Carole Clark:

The actual book Digital Fundamentals with PLD Programming has a lot details on it. So when you read this book you can get a lot of profit. The book was published by the very famous author. The writer makes some research previous to write this book. This kind of book very easy to read you can obtain the point easily after perusing this book.

Katherine Clark:

Playing with family in the park, coming to see the ocean world or hanging out with pals is thing that usually you may have done when you have spare time, and then why you don't try thing that really opposite from that. One particular activity that make you not experience tired but still relaxing, trilling like on roller coaster you have been ride on and with addition info. Even you love Digital Fundamentals with PLD Programming, you may enjoy both. It is good combination right, you still want to miss it? What kind of hang type is it? Oh can occur its mind hangout people. What? Still don't understand it, oh come on its referred to as reading friends.

Ann Ginsberg:

Are you kind of stressful person, only have 10 as well as 15 minute in your day time to upgrading your mind ability or thinking skill possibly analytical thinking? Then you are experiencing problem with the book compared to can satisfy your short period of time to read it because this time you only find reserve that need more time to be read. Digital Fundamentals with PLD Programming can be your answer since it can be read by a person who have those short free time problems.

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