



Electronic Project Design and Fabrication (6th Edition)

By Ronald A. Reis

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With its hands-on approach and careful focus on key topics, this innovative book gives thorough coverage of the fundamentals of electronic design, fabrication, and documentation, PLUS a complete experience in creating electronic prototype devices. Readers can work their way through projects covering all skill levels and will learn how to present a thorough *Project Report*—with written and graphic documentation—delineating procedures, developments, and specifications of a project. This book asks the reader to both design and construct a project and document the procedure. Easy to read and informative, it covers safety; the design process; drawings; technical writing; experimenting; prototyping through printed circuit board design, fabrication, and final assembly and packaging; testing, troubleshooting, and final documentation; computer-aided design (CAD); and surface mount technology. An excellent reference for industrial, mechanical, and electronic engineers, as well as technical writers in these fields.

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Editorial Review

From the Publisher

A thorough, readable treatment of the fundamentals of electronic design, fabrication, and documentation that includes a complete experience in creating a prototype device. Through concise, conversational writing and a step-by-step presentation, this text guides students through all phases of the creation of workable devices...from planning and construction to testing and troubleshooting. Students learn to breadboard a circuit, design and fabricate a printed circuit board, and enclose the device in an appropriate package. Underlying principles and theory are incorporated at each stage of instruction, to ensure that students understand actual industry standard practices.

From the Back Cover

Key Benefit: A thorough, readable treatment of the fundamentals of electronic design, fabrication, and documentation that includes a complete experience in creating a prototype device. **Key Topics:** Guides readers through all phases of the creation of workable devices...from planning and construction to testing and troubleshooting. Readers learn to breadboard a circuit, design and fabricate a printed circuit board, and enclose the device in an appropriate package. Underlying principles and theory are incorporated at each stage of instruction, to ensure that readers understand actual industry standard practices.

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Electronic Project Design and Fabrication, Fifth Edition, offers a complete experience in the design and fabrication of electronic prototype projects. Whether you are enrolled in a traditional lecture and laboratory class or a fabrication course devoted entirely to the subject, this book provides the hands-on experience in project building and documentation every prospective electronics technician requires.

A project, however, is not all you will be developing as you progress through the text. You will also be building confidence in your ability to construct electronic devices. The know-how to take a project from an initial concept through to final construction with support documentation is sure to give you pride and self-assurance as you enter the electronics industry. Electronic Project Design and Fabrication will prepare you for that exciting moment.

Think of yourself as a technician on the job. Your supervisor presents you with a project idea designed to fill a need or to solve a problem. You must determine if the idea is feasible and, if so, build a working prototype project and develop an accompanying Project Report.

The project should resemble the final, mass-produced product. You must design the circuit, breadboard it, design and fabricate a printed circuit board, and then enclose the project in a functional and attractive case. The Project Report is to include appropriate written and graphic documentation. It delineates various troubleshooting and test procedures, summarizes project developments, and contains the 10-drawing set used to construct the prototype project.

In project construction, you have a choice of three approaches. In the first approach, you choose to build the Sample Project—the Variable Power Supply. This project progresses from chapter to chapter, starting with the two-step design process and ending with a completely packaged and tested prototype project, along with necessary documentation.

The Exercise Project, the 3-Channel Color Organ, is at a slightly higher level of difficulty. Because less help is provided in building this project, you'll have to do a bit of digging and developing on your own. The Exercise Project also is carried from chapter to chapter.

Finally, 30 Elective Projects are presented in Part III. Only Concepts and Requirements Documents and circuit design sketches are provided. Here you will need to develop specific project design and fabrication details on your own.

Although the project construction and documentation motivate you to progress from one chapter to the next, Electronic Project Design and Fabrication is more than a project book. The fundamentals of prototype project design, fabrication, and documentation are a part of every chapter. Even if you elect not to construct a project (a most unlikely occurrence), you will gain a firmer understanding of electronic device fabrication after studying the book.

The fifth edition of Electronic Project Design and Fabrication represents an up-to-date revision of a well-received text. New material has been added, including the following: "Something to Think About" minisections have been added at the end of every section. Students will find these suggestions for further inquiry inspiring. Chapter summaries have been updated to better lead into the material to come. Searching for electronic component sources has become easier, via the Internet. In Chapter 3 we explain how best to do this. In Chapter 7, a section has been added on PC board trace-width spacing. Electronics Workbench material in Chapter 3 has been revised to include a discussion of MultiSim V6.2. Material on computer-aided design (CAD), in Chapter 11, has been revised. Five new elective projects have been added in Chapter 17. Two new appendices have been added: Appendix J lists electronic kit sources, and Appendix K lists electronic project design and fabrication web sites to visit. In addition, Appendix G has been revised to include additional published sources for technical writers. New terms have been added to the glossary.

I hope you will find the fifth edition of Electronic Project Design and Fabrication a great tool as you design and create new electronic products. ACKNOWLEDGMENTS

Many people at Prentice Hall have provided me with invaluable assistance in the preparation of this new edition. In particular, I want to thank Charles Stewart, Assistant Vice President and Publisher, who has given me technical assistance, patient encouragement, and most importantly, enthusiastic encouragement.

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Los Angeles Valley College

Users Review

From reader reviews:

Jean Gaskin:

Playing with family inside a park, coming to see the ocean world or hanging out with good friends is thing that usually you might have done when you have spare time, and then why you don't try issue that really opposite from that. Just one activity that make you not sense tired but still relaxing, trilling like on roller coaster you are ride on and with addition info. Even you love Electronic Project Design and Fabrication (6th Edition), you may enjoy both. It is excellent combination right, you still would like to miss it? What kind of hangout type is it? Oh seriously its mind hangout folks. What? Still don't obtain it, oh come on its called reading friends.

Kathy Norvell:

In this time globalization it is important to someone to receive information. The information will make someone to understand the condition of the world. The healthiness of the world makes the information simpler to share. You can find a lot of recommendations to get information example: internet, magazine, book, and soon. You can observe that now, a lot of publisher in which print many kinds of book. The book that recommended to you is Electronic Project Design and Fabrication (6th Edition) this publication consist a lot of the information on the condition of this world now. That book was represented how does the world has grown up. The dialect styles that writer require to explain it is easy to understand. The actual writer made some exploration when he makes this book. That is why this book suitable all of you.

Ricardo Donaldson:

This Electronic Project Design and Fabrication (6th Edition) is fresh way for you who has interest to look for some information as it relief your hunger info. Getting deeper you upon it getting knowledge more you know or else you who still having tiny amount of digest in reading this Electronic Project Design and Fabrication (6th Edition) can be the light food for you because the information inside that book is easy to get by anyone. These books acquire itself in the form that is certainly reachable by anyone, yeah I mean in the e-book type. People who think that in publication form make them feel drowsy even dizzy this reserve is the answer. So there is not any in reading a reserve especially this one. You can find what you are looking for. It should be here for you. So , don't miss it! Just read this e-book variety for your better life and also knowledge.

Grant Rickard:

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