Digital Electronics Guidebook: With Projects!

Myke Predko, Michael Predko
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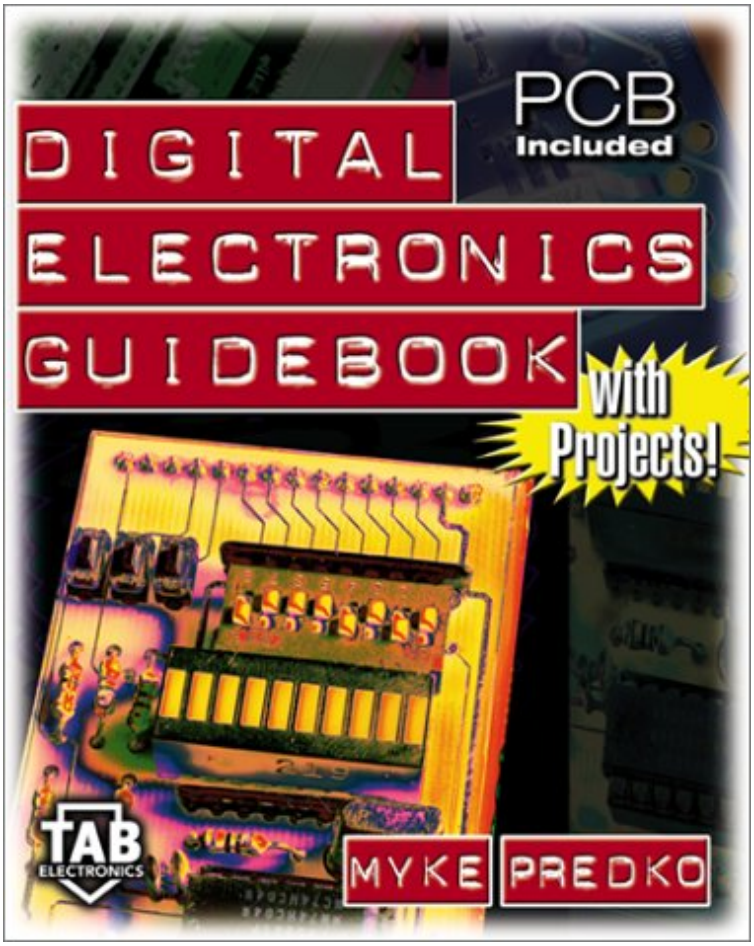

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Myke Predko, Michael Predko : Digital Electronics Guidebook: With Projects! before purchasing it in order to gage whether or not it would be worth my time, and all praised Digital Electronics Guidebook: With Projects!:

0 of 0 people found the following review helpful. A Digital Electronics Bible!By Gordon WilliamsIt helped me with my lesson planning. Great projects and great info.14 of 14 people found the following review helpful. TTL from the bottom upBy A CustomerI have a couple of myke's books (PIC, 8051) and this one is quite a departure from the normal run of the mill "microcontroller" books that he does. The book is devoted to explaining digital logic and he does a really good job and approaches it from a direction that I've never seen before.For example, I've never seen anybody actually build a TTL gate out of discrete transistors and resistors before. This was really helpful for me - I've never really understood how the built in pull ups in a TTL gate worked before I read this book.Myke has really latched onto the idea of including PCBs in his books and the power supply/TTL interface is really helpful to get the reader started in working with TTL. What I have always liked about Mykes books is that he really tries to provide circuits that the reader can build easily. With the power supply/interface PCBs included in the book, creating the experiments

just takes a few moments. This is really nice.JD7 of 7 people found the following review helpful. Excellent but marred with typosBy Roland F. AndersonThis is an excellent book for neophytes like me. Unfortunately, it is marred by a surprisingly large number of typos, like many of Mr. Predko's books.Part of this is because he reuses large blocks of text in his many publications w/o really matching up figures with text, etc. He doesn't always match numbers on his printed circuit boards with the text. Perhaps these errors sneak in between editions. Most of these are so obvious there is no problem making out what he meant. Still, I worry that there are typos which I don't recognize.The printed circuit boards are excellent with plated through holes. Even an inexperienced solderer like me can do a neat job easily and quickly.

Unlike simpler analogue circuits, digital circuits are able to store and process bits of information needed to make logical decisions. This book is a practical guide to explaining how digital circuits are designed and interfaced. There are 20 plus projects to help explain the concepts of designing digital circuits to the reader as well as wiring them to various devices.

From New Literature Section: Intended for electronics hobbyists and students who want to understand digital logic, this book features more than 20 projects for designing, constructing, and interfacing TTL ("Transistor-"Transistor-"Logic) circuits. From constructing your own simple 8-bit computer to creating and debugging applications, the author explores the art of digital electronics through step-by-step instructions and demonstrations of project-assembly techniques.From the Back CoverPACKED WITH PROJECTS, THIS BOOK HELPS YOU MASTER DIGITAL ELECTRONICS FROMTHE INSIDE OUT! * Perfect for electronics hobbyists and students--even complete beginners--who want to understand digital logic and build their own low-cost logic circuits * Featuring more than 20 projects with step-by-step directions for designing, constructing, and interfacing easy-to-do TTL (Transistor-Transistor Logic) circuits * Everything you need to rediscover the neglected art of pure digital electronics and create working projects--even a simple computer! THE HEART OF DIGITAL ELECTRONICS Though ASICs (Application Specific Integrated Circuits) have largely replaced TTL chips, it is TTLs that gtive electronics enthusiasts the power to design and build logic circuits from scratch. The first Apple computers were run by rows and rows of TTLs--it's TTLs that expose how digital logic really works. THE BEST WAY TO EXPLORE DIGITAL ELECTRONICS--AND TO MAKE IT WORK FOR YOU--MYKE PREDKO'S DIGITAL ELECTRONICS GUIDEBOOK (WITH PROJECTS) IS A COMPLETE PACKAGE FOR THE EXPERIMENTER. * All the help you need-from directions for setting up your own digital electronics lab to explanations of needed math and basic electronics * Over 20 interesting projects, which demonstrate the power and possibilities of logic circuits you can build * Tips for making circuits that switch, count, time, measure, control, combine input and output, switch-bounce, "think," and much more * Learn how computers really work * Construct your own simple 8-bit computer * All the options you need to build sophisticated applications of your own design * Guidance on creating, prototyping, and debugging your applications * Reusable printed circuit board included * Additional parts easily available (from Radio Shack, for instance) * Demonstrations of project assembly techniques, such as wrapping and soldering * Appendix with useful tables, data, and formulasAbout the AuthorMyke Predko (Toronto, Ontario) is a graduate of Electrical Engineering from the University of Waterloo. He is current a New Product Test Engineer at Celestica in Toronto where he works with new electronic product designers and has a patent pending regarding the automated test of PC Motherboards. He is the author of Programming Customizing the PIC Microcontroller, Programming Customizing the 8051 Microcontroller, the Handbook of Microcontroller, PC Ph.D. and PC Interfacing Pocket Reference.