



Digital Electronics Guidebook: With Projects!

By Myke Predko, Michael Predko

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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.

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Editorial Review

Review

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 Cover

PACKED WITH PROJECTS, THIS BOOK HELPS YOU MASTER DIGITAL ELECTRONICS FROM THE 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 give 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 formulas

About the Author

Myke 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.

Users Review

From reader reviews:

Bradley Loy:

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Frances Hayes:

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Steven Hackett:

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