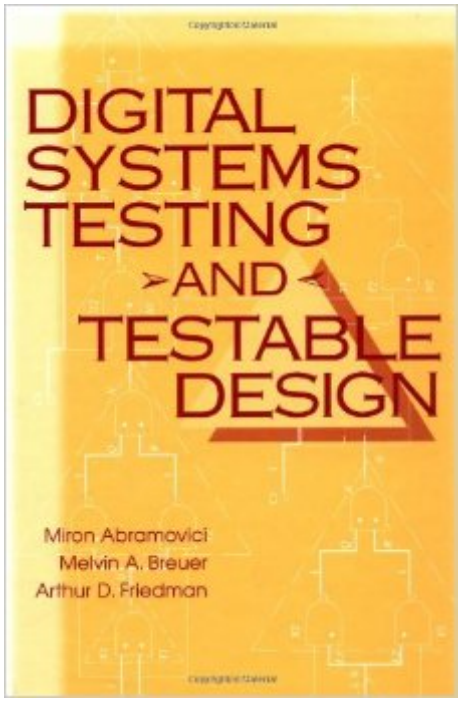
Digital Systems Testing & Testable Design



Synopsis

This updated printing of the leading text and reference in digital systems testing and testable design provides comprehensive, state-of-the-art coverage of the field. Included are extensive discussions of test generation, fault modeling for classic and new technologies, simulation, fault simulation, design for testability, built-in self-test, and diagnosis. Complete with numerous problems, this book is a must-have for test engineers, ASIC and system designers, and CAD developers, and advanced engineering students will find this book an invaluable tool to keep current with recent changes in the field.

Book Information

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Customer Reviews

I am graduate student in VLSI testing. This book has everything from basics to latest testing techniques. No wonder that the authors took nore than 8 years to complete it. There is no other book in testing which is so comprehensive. If you are begginer or student with some experience in testing this book will best serve your needs.

just average reference book.the author does not elaborate more about certain key points when he/she actually needs but talk too much when certain points are very intuitive and easy.As a graduate student who is currently taking a course whose reference book is this one, I feel this is just an average book. Ones still need to go online to search for more elaboration and explanations from

time to time.

I’m taking a graduate course on Digital Systems Testing and this is the professor-designated primary class textbook.When criticizing a book, it’s important to know what the objective, writing style, and target audience of the author is. This book seems to be targeted towards the cream of the crop in the digital testing field.It’s probably one of the most ambiguous and incoherent books I’ve ever read in my life. It’s almost like there was a concerted effort by the authors to omit and muddy certain topics. I get very tense reading the book since I get stuck on single sentences for minutes at a time. One has to read, reread, read, reread, and read. You might still not come out making sense of it. Its also outdated and presents digital topics in a very complicated light. I do not advise you to purchase this book. Sadly, I cannot refer you to other sources as this seems to be the accepted bible on the topic.One of the pros is it is well sourced... so if you have that kind of time then get the book for the sources and see if those are any better.

I am a engineer of automatic control.This book introduces very important concepts for testing.The content is1. Introduction2. Modeling3. Logic simulation4. Fault modeling5. Fault simulation6. Testing for single stuck faults7. testing for bridging faults8. functional testing9. design for testability10. compression techniques11. built in self test12. logic level diagnosis13. self checking design14. PLA testing15. system level diagnosis9.3 Controllability and Observability is important concepts.If it is observable, it may not controllable.Testability, controllability and observability should be analized for testing.This book is good start point of testing.At 2010, 10th edition is printing.

This book is not ideal for engineers with very little exposure to digital circuitry. A prior course in digital circuits is essential before getting the most from this text. Once you have a fundamental background, this book is excellent in extending your design knowledge into the testing world. A great design which cannot be tested isn’t worth much. This book will reinforce this concept.

I am a engineer of automatic control.This book introduce very important concepts for testing.9.3 Controllability and Observability is important concepts.If it is observable, it may not controllable.Testability, controllability and observability should be analized for testing.This book is good start point of testing.

Not a good one for the beginners like me. It seems covering the everything in the subject of digital

testing, but the author goes very difficult way to explain even simple concepts that are easily explained in some other texts. I guess, if anyone wants to grasp an idea about what is the degital testing then pick "DESIGN for TEST, by ALFRED L. CROUCH" or if you are working enginner in testing industry or the graduate student who plans to write a paper then it will be the one eventually.

Digital Systems Testing & Testable Design Hacking: How to Hack Computers, Basic Security and Penetration Testing (Hacking, How to Hack, Hacking for Dummies, Computer Hacking, penetration testing, basic security, arduino, python) Hacking: Basic Security, Penetration Testing and How to Hack (hacking, how to hack, penetration testing, basic security, arduino, python, engineering) Hacking: How to Computer Hack: An Ultimate Beginner's Guide to Hacking (Programming, Penetration Testing, Network Security) (Cyber Hacking with Virus, Malware and Trojan Testing) The Basics of Hacking and Penetration Testing: Ethical Hacking and Penetration Testing Made Easy Hacking: Beginner's Guide to Computer Hacking, Basic Security, Penetration Testing (Hacking, How to Hack, Penetration Testing, Basic security, Computer Hacking) The Basics of Hacking and Penetration Testing: Ethical Hacking and Penetration Testing Made Easy (Syngress Basics Series) Delay Fault Testing for VLSI Circuits (Frontiers in Electronic Testing) Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination, 8e (Daniels & Worthington's Muscle Testing (Hislop)) Guide to DNA Testing: How to Identify Ancestors, Confirm Relationships, and Measure Ethnic Ancestry through DNA Testing Measuring the Digital World: Using Digital Analytics to Drive Better Digital Experiences (FT Press Analytics) Fotografia Submarina / Underwater Photography: Tecnicas Fotograficas / Digital and Traditional Techniques (Ocio Digital / Leisure Digital) (Spanish Edition) CMOS SRAM Circuit Design and Parametric Test in Nano-Scaled Technologies: Process-Aware SRAM Design and Test (Frontiers in Electronic Testing) Introduction to Embedded Systems: Using ANSI C and the Arduino Development Environment (Synthesis Lectures on Digital Circuits and Systems) Feng Shui: Wellness and Peace- Interior Design, Home Decorating and Home Design (peace, home design, feng shui, home, design, home decor, prosperity) HACKING: Beginner's Crash Course - Essential Guide to Practical: Computer Hacking, Hacking for Beginners, & Penetration Testing (Computer Systems, Computer Programming, Computer Science Book 1) VLSI Digital Signal Processing Systems: Design and Implementation Digital Design (Verilog): An Embedded Systems Approach Using Verilog Digital Systems Design: A Practical Approach: The Verilog Edition Digital Design: A Systems Approach