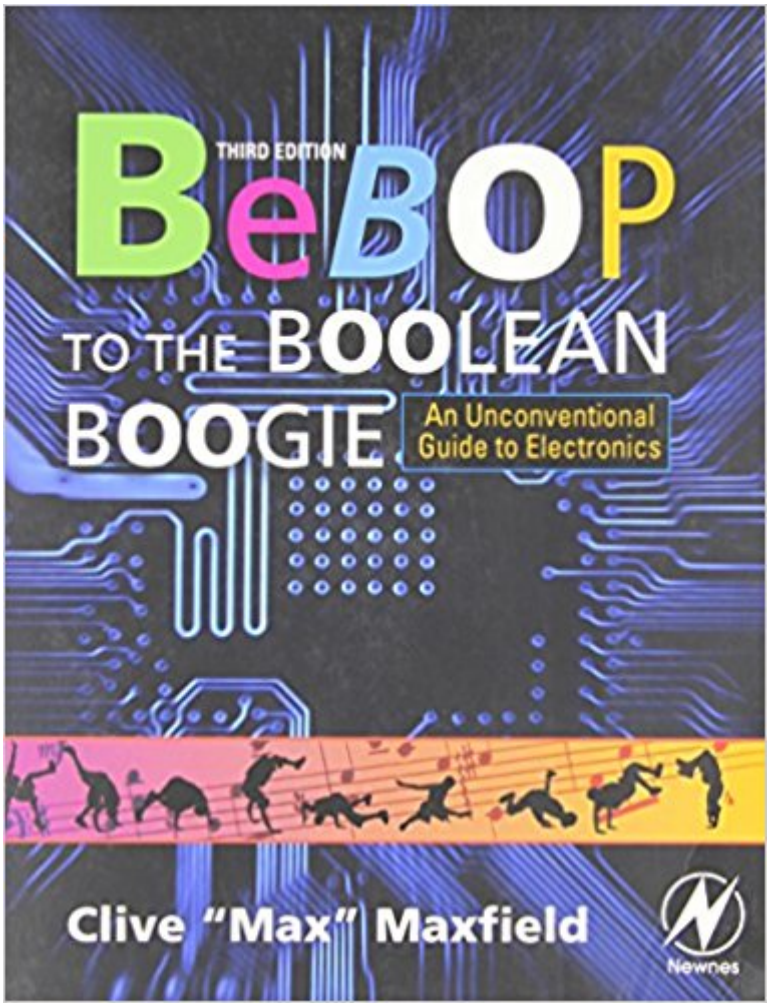
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Bebop To The Boolean Boogie, Third Edition: An Unconventional Guide To Electronics



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Synopsis

This entertaining and readable book provides a solid, comprehensive introduction to contemporary electronics. It’s not a "how-to-do" electronics book, but rather an in-depth explanation of how today’s integrated circuits work, how they are designed and manufactured, and how they are put together into powerful and sophisticated electronic systems. In addition to the technical details, it’s packed with practical information of interest and use to engineers and support personnel in the electronics industry. It even tells how to pronounce the alphabet soup of acronyms that runs rampant in the industry.CONTENTS:Section 1: FundamentalsChapter 1 Analog versus Digital Chapter 2 Atoms, Molecules, and Crystals Chapter 3 Conductors, Insulators, and Other Stuff Chapter 4 Semiconductors (Diodes and Transistors) Chapter 5 Primitive Logic Functions Chapter 6 Using Transistors to Build Logic Gates Chapter 7 Alternative Numbering Systems Chapter 8 Binary Arithmetic Chapter 9 Boolean Algebra Chapter 10 Karnaugh Maps Chapter 11 Slightly More Complex Functions Chapter 12 State Machines Chapter 13 Analog-to-Digital and Vice VersaSection 2: Components and ProcessesChapter 14 Integrated Circuits (ICs) Chapter 15 Memory ICs Chapter 16 Programmable ICs Chapter 17 Application-Specific Integrated Circuits (ASICs) Chapter 18 Circuit Boards Chapter 19 Hybrids Chapter 20 System-in-Package (Sip) and FriendsChapter 21 Alternative and Future Technologies Section 3: Design Tools and StuffChapter 22 General Concepts Chapter 23 Design and Verification Tools Appendix A Assertion-Level Logic Appendix B Positive Logic versus Negative Logic Appendix C Reed-MÃƒÂ ller Logic Appendix D Gray Codes Appendix E Linear Feedback Shift Registers (LFSRs) Appendix F Pass-Transistor Logic Appendix G More on Semiconductors Appendix H Rounding Algorithms 101 Appendix I Pass-Transistor Logic Appendix J An Interesting Conundrum Abbreviations and Acronyms Glossary Index *Written in conversational, fun style that has generated a strong following for the author and sales of over 14,000 copies for the first two editions *The Third Edition is even bigger and better, with lots of new material, illustrations, and an expanded glossary *Ideal for training incoming engineers and technicians, and for people in marketing or other related fields or anyone else who needs to familiarize themselves with electronics terms and technology

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Customer Reviews

"This is a dangerous book. . . . Not only do you stand a chance of learning something from it, but ten years from now you will still remember it!"--Pete Waddell, editor, Printed Circuit Design "Lives up to its title as a useful and entertaining technical guide...well suited for students, technical writers, technicians, and sales and marketing people."--Electronic Design

Clive "Max" Maxfield received a BS in Control Engineering from Sheffield Polytechnic, England in 1980. He began his career as a mainframe CPU designer for International Computers Limited (ICL) in Manchester, England. Max now finds himself a member of the technical staff (MTS) at Intergraph Electronics, Huntsville, Alabama. Max is the author of dozens of articles and papers appearing in magazines and at technical conferences around the world. Max’s main area of interest are currently focused in the analog, digital, and mixed-signal simulation of integrated circuits and multichip modules.

Holy ****. Fantastic read. One of the best electronics/computer/digital logic books I own. VERY thorough. A classic.

Very readable and won’t put the reader to sleep. Still will have to do problem solving to ensure the mechanics are remembered but Bebop is a good starting point.

Pithy, well thought-out visualizations of many of the mainstream and emerging electronic concepts and processes in use, or contemplated. Clive Maxfield’s style keeps it interesting and readable. Great effort!

Awesome Book learning a lot and retaining a lot

Good coverage of topics and enjoyable to read

If you are interested or just want to or have to learn computer engineering, i highly recommend this book. It was delivered on time and in the condition it said on the (new). The only recommendation i would have to improve this book is to make a copy with a hard cover, hard covers last longer and i am planning to keep this for more then a couple of years.4 out of 5 stars.great book and was precisely what i was looking for.

My first reaction on reading Clive Maxfield’s "Bebop to the Boolean Boogie" was regret that it was not available when I was in college (or before). I’m happy it is available now nonetheless, as it has served to reacquaint me with topics long since forgotten and breathed life into those that have become routine.Previous editions of the book have a reputation for providing clear, concise explanations infused with what has become the characteristic Maxfield wit. (I’ve heard people call him the Douglas Adams of engineering.) The third edition is profusely illustrated in color and maintains Maxfield’s practice of including historical background and the occasional humorous anecdote throughout.These, however, are only surface observations. Max (as he is known) begins with an accessible explanation of the physics behind electronics at the subatomic level and proceeds logically through passive components, fundamentals of digital logic and integrated circuits to state machines and programmable logic, printed circuit board design and a discussion of design tools and developing technologies. These are the discussions I can immediately recall. There is much more here.Because of its breadth of coverage people may think of this as an introductory text, but a closer examination of some of the material (particularly, in my case, those sections covering FPGA architectures, design flow and verification) will reveal that this book will be equally useful to the student who needs some "rhyme and reason" for the volumes of frequently disjointed material (s)he may be forced to parrot in academia, and to the practicing engineer who is looking for a good deskside companion covering topics that may have slipped his mind with the passage of time. As a bonus, the reader is provided the occasional reminder that this is all supposed to be enjoyable.This is one of the few books I have read that informed where my knowledge was lacking and entertained where it wasn’t.

Who says that British are stuffy? Look how happy and comical they are: Monty Python, Benny Hill, Douglas Adams and best of all Clive Maxfield (AKA Max the Magnificent). So grab a copy of this book, set your infinite improbability drive on maximum and enjoy reading about electronics and other interesting facts. Honestly, I didn't know that Greenland Eskimos had a base 20 counting system, using their toes in addition to their fingers. I would have thought they would be more likely to have a base 4 system being all bundled up in mittens to stay warm.Max writes with a British accent but he still spells everything correctly (color instead of their colour etc.). That's part of the charm, you can learn whilst being entertained (did you see how I slipped that in there?).So why do you want this book? Well, I wish I could have gotten it when I was in college instead of spending hundreds of dollars each semester on books. This one book could easily replace most of my EE texts since the coverage is so broad, in fact there are many useful subjects that were never covered in my courses like board layout and future technologies. It contains everything you NEED in an easy to understand format instead of superfluous Ph.D. technobabble. It even contains the kitchen sink, well, almost; one of the many Appendixes has his recipe for a spicy Seafood Gumbo. There is also a detailed Glossary.You say you're done with college and you know all this material. Maybe, but a refresher is always good and I'm sure everyone will learn something from this volume. For instance, although the color gray can also be spelled grey and be correct, counters are definitively Gray after the inventor. Plus, now you don't have to have a shelf of all your old text books, get rid of them and replace them with this one book so you have more room for others on your shelf. Or better yet, give it to a loved one to read so their eyes won't gloss over with a reply of "Yes, dear." or "Isn't that nice." when you start to talk to them about work. In fact, it would make a good follow on toÃ Â There Are No Electrons: Electronics for Earthlings.Many of you may be familiar with Max's style from his magazine articles and blogs. If you enjoy his amusing and wide ranging tangents then you'll be right at home with this book. You may even learn about him and from whence he came (there you go, another British word).

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