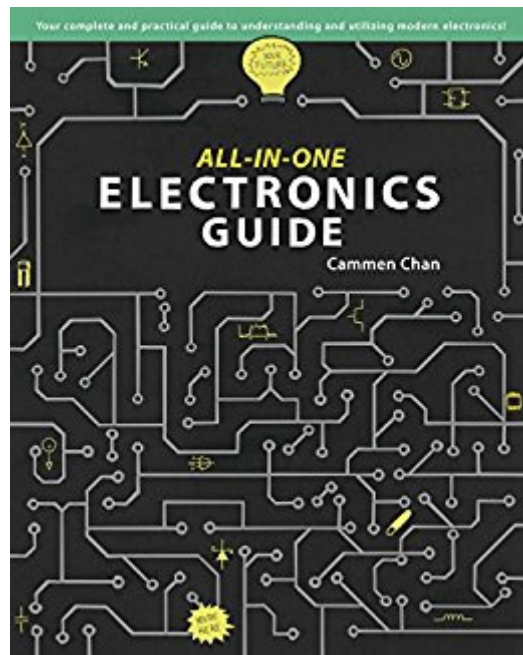


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# All-in-One Electronics Guide: Your Complete Ultimate Guide To Understanding And Utilizing Electronics!



## Synopsis

The semiconductor industry is a big business. The electronics industry is even bigger. The semiconductor industry alone was a US \$300 billion plus industry in 2012. The long-term trend of electronics is bright and promising. With increasing use of electronic devices in consumer, commercial, and industrial products and systems, the electronics industry is always growing. If you are considering becoming an electronics engineer, this book gives you the technical skills needed to pass the technical parts of interviews and the confidence to increase your chances of getting employed. If you are already an electronics technician or engineer, this book improves your ability to perform at the highest level at work in the electronics field. If you want to be a microelectronics engineer or are already one, you will find the microelectronics-related contents in this book applicable to your work. If you are an educator teaching electronics, this book is the perfect reference for you and your students with step-by-step technical examples and quizzes. If you are an electronics hobbyist, this book offers sampled electronic circuits (electronic components connected with each other by wires or traces) you can apply to your design. For everyone else interested in learning about electronics, this book provides a strong foundation of what you need to know when working with electronics. The chapters are divided into various electronic principles levels, from basic to advanced, along with practical circuits and quizzes. Answers provide step-by-step explanations of how and why the answers were derived. Examples and circuits in later chapters build upon previous chapters, thus creating a consistent flow of learning and a gradual accumulation of knowledge. The level of mathematics is moderate without tedious and complicated math models and formulas. For students majoring in electrical engineering, this book is more than your typical academic electronics textbook that overwhelms you with excessive theories, formulas, and equations. Instead, the material covered in this book is easy to read, with plenty of diagrams, pictures, waveforms, and graphs, and is easy to understand. Accurately representing our non-ideal world, this book's technical contents greatly differ from most academic textbooks' false ideal perspective. The content is injected with real world quantities and characteristics. For experienced electronics professionals, educators, and hobbyists, this book affords a good reality check and comprehensive review to assist your career or your students, to better prepare for your next job interview, and to inspire your next electronics projects. Cammen Chan has been working in the electronics industry since 1996. After receiving his bachelor of science degree in electronic engineering technology from the Wentworth Institute of Technology and master of science degree in electrical engineering from Boston University, he began his engineering career at IBM Microelectronics, then worked at Analog Devices Inc., National Semiconductor, and several technology startups. He has one US patent

invention in the area of nanotechnology. Since 2009, Cammen has also been an adjunct faculty member at a number of US colleges and universities including ITT Technical Institute, DeVry University, Western International University, University of Advancing Technology, Chandler Gilbert Community College, Remington College, and Excelsior College. He teaches electronics engineering technology, information technology, mathematics, and emerging technologies. Cammen has taught all the subjects in this book in various formats such as on-site, online, and blended classes. Currently, Cammen is a technical training engineer at Microchip Technology in the Phoenix area.

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## **Customer Reviews**

I last took an electronics course almost 20 years ago. This book was recommended as a quick refresher. Sometimes you can't get away from the math and physics, and sometimes the math and physics gets in the way. This book tries to position itself in the middle. The material covers a wide range of topics but only delves moderately into each subject. The author took out a lot of background theory, math, and physics, only leaving the necessary information to get the job

done. This is perfect for those who, like me, once studied electronics at a university level and only need the basics now to quickly recall the various topics. I must admit that some of the topics required research from other sources as the book did not have the detail I needed. However, this book was a good starting point and reference. I would venture to say this book is also useful as a supplement for new students studying practical or associate level electronics. Perhaps their textbook has too much information and the student simply wants the "quick and dirty" of a particular subject. I'd hesitate to recommend this book to those with no practical electronics experience as there is not enough theory or detail to paint the complete picture.

Very well written and an easy to understand guide for all of your electronics needs. The author has a clear way for explaining topics that most of my instructors were unable to explain easily and he does it in a way that someone without any prior electronics experience can read and understand the subject.

This book is pretty helpful. There's a lot of information that typical school books overlook and everything is much more up to date. Also helped me learn things that I just didn't understand when learning electronics in school.

I like this book, it is easy to follow along. It shows in great detail and simple explanation in such a small compact book, kudos to Cammen Chan

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