

Art Of Electronics Paul Horowitz

"This is teaching at its best!" --Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of *Much Ado About Almost Nothing: Man's Encounter with the Electron* (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly."

--Tom Igoe, author of *Physical Computing and Making Things Talk* A "magnificent and rewarding book. ... Every step of this structured instruction is expertly illustrated with photos and crisp diagrams. . . . This really is the best way to learn." --Kevin Kelly, in *Cool Tools*

The first edition of *Make: Electronics* established a new benchmark for introductory texts. This second edition enhances that learning experience. Here you will find unique, photographically precise diagrams of breadboarded components, to help you build circuits with speed and precision. A new shopping guide and a simplified range of components, will minimize your investment in parts for the projects. A completely new section on the Arduino shows you how to write properly structured programs instead of just downloading other people's code. Projects have been reworked to provide additional features, and the book has been restructured to offer a step-by-step learning process that is as clear and visually pleasing on handheld devices as it is on paper. Full color is used throughout. As before, *Make: Electronics* begins with the basics. You'll see for yourself how components work--and what happens when they don't. You'll short out a battery and overheat an LED. You'll also open up a potentiometer and a relay to see what's inside. No other book gives you such an opportunity to learn from real-life experiences. Ultimately, you will build gadgets that have lasting value, and you'll have a complete understanding of how they work. From capacitors to transistors to microcontrollers--it's all here. Hans Camenzind, inventor of the 555 Timer (the world's most successful integrated circuit chip), said that "This is teaching at its best!" when he reviewed the first edition. Now the second edition offers even more!

The *Circuit Designer's Companion* covers the theoretical aspects and practices in analogue and digital circuit design. Electronic circuit design involves designing a circuit that will fulfill its specified function and designing the same circuit so that every production model of it will fulfill its specified function, and no other undesired and unspecified function. This book is composed of nine chapters and starts with a review of the concept of grounding, wiring, and printed circuits. The subsequent chapters deal with the passive and active components of circuitry design. These topics are followed by discussions of the principles of other design components, including linear integrated circuits, digital circuits, and power supplies. The remaining chapters consider the vital role of electromagnetic compatibility in circuit design. These chapters also look into safety, design of production, testability, reliability, and thermal management of the designed circuit. This book is of great value to electrical and design engineers.

Ideal for a one-semester course, this concise textbook covers basic electronics for undergraduate students in science and engineering. Beginning with the basics of general circuit laws and resistor circuits to ease students into the subject, the textbook then covers a wide range of topics, from passive circuits through to semiconductor-based analog circuits and basic digital circuits. Using a balance of thorough analysis and insight, readers are shown how to work with electronic circuits and apply the techniques they have learnt. The textbook's structure makes it useful as a self-study introduction to the subject. All mathematics is kept to a suitable level, and there are several exercises throughout the book. Password-protected solutions for instructors, together with eight laboratory exercises that parallel the text, are available online at www.cambridge.org/Eggleston.

A practically based explanation of electronic circuitry.

This Is The Thoroughly Revised And Updated Second Edition Of The Hugely Successful The Art Of Electronics. Widely Accepted As The Single Authoritative Text And Reference On Electronic Circuit Design, Both Analog And Digital, The Original Edition Sold Over 125,000 Copies Worldwide And Was Translated Into Eight Languages. The Book Revolutionized The Teaching Of Electronics By Emphasizing The Methods Actually Used By Circuit Designers-A Combination Of Some Basic Laws, Rules To Thumb, And A Large Non-Mathematical Treatment That Encourages Circuit Values And Performance.

Based on the #1 New York Times bestseller The 5 Love Languages®(over 12 million copies sold), Dramatically improve workplace relationships simply by learning your coworkers' language of appreciation. This book will give you the tools to improve staff morale, create a more positive workplace, and increase employee engagement. How? By teaching you to effectively communicate authentic appreciation and encouragement to employees, co-workers, and leaders. Most relational problems in organizations flow from this question: do people feel appreciated? This book will help you answer "Yes!" A bestseller—having sold over 300,000 copies and translated into 16 languages—this book has proven to be effective and valuable in diverse settings. Its principles about human behavior have helped businesses, non-profits, hospitals, schools, government agencies, and organizations with remote workers. PLUS! Each book contains a free access code for taking the online Motivating By Appreciation (MBA) Inventory (does not apply to purchases of used books). The assessment identifies a person's preferred languages of appreciation to help you apply the book. When supervisors and colleagues understand their coworkers' primary and secondary languages, as well as the specific actions they desire, they can effectively communicate authentic appreciation, thus creating healthy work relationships and raising the level of performance across an entire team or organization. Take your team to the next level by applying The 5 Languages of Appreciation in the Workplace.

Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

The book features: carefully hand-drawn circuit illustrations hundreds of fully tested circuits tutorial on electronics basics tips on part substitutions, design modifications, and circuit operation All covering the following areas: Review of the Basics Digital Integrated Circuits MOS/CMOS Integrated Circuits TTL/LS Integrated Circuits Linear Integrated Circuits Index of Integrated Circuits Index of Circuit Applications This manual provides a set of course materials tailored to students' needs, moving quickly where appropriate and slowly on more difficult concepts.

The Art of Electronics: The x-Chapters expands on topics introduced in the best-selling third edition of The Art of

Electronics, completing the broad discussions begun in the latter. In addition to covering more advanced materials relevant to its companion, The x-Chapters also includes extensive treatment of many topics in electronics that are particularly novel, important, or just exotic and intriguing. Think of The x-Chapters as the missing pieces of The Art of Electronics, to be used either as its complement, or as a direct route to exploring some of the most exciting and oft-overlooked topics in advanced electronic engineering. This enticing spread of electronics wisdom and expertise will be an invaluable addition to the library of any student, researcher, or practitioner with even a passing interest in the design and analysis of electronic circuits and instruments. You'll find here techniques and circuits that are available nowhere else. An insider reveals what can—and does—go wrong when companies shift production to China In this entertaining behind-the-scenes account, Paul Midler tells us all that is wrong with our effort to shift manufacturing to China. Now updated and expanded, Poorly Made in China reveals industry secrets, including the dangerous practice of quality fade—the deliberate and secret habit of Chinese manufacturers to widen profit margins through the reduction of quality inputs. U.S. importers don't stand a chance, Midler explains, against savvy Chinese suppliers who feel they have little to lose by placing consumer safety at risk for the sake of greater profit. This is a lively and impassioned personal account, a collection of true stories, told by an American who has worked in the country for close to two decades. Poorly Made in China touches on a number of issues that affect us all.

There are many 'Electric Circuits' books on the market but this unique Understandable Electric Circuits book provides an understandable and effective introduction to the fundamentals of DC/AC circuits. It covers current, voltage, power, resistors, capacitors, inductors, impedance, admittance, dependent/independent sources, the basic circuit laws/rules (Ohm's law, KVL/KCL, voltage/current divider rules), series/parallel and wye/delta circuits, methods of DC/AC analysis (branch current and mesh/node analysis), the network theorems (superposition, Thevenin's/Norton's theorems, maximum power transfer, Millman's and substitution theorems), transient analysis, RLC circuits and resonance, mutual inductance, transformers, and more. This book presents material in a clear and easy-to-understand manner. All important concepts, rules and formulas are highlighted after the explanation and are also summarised at the end of each chapter, making it easy to locate important facts and to study more effectively. The laboratory experiments at the end of each chapter are convenient for doing hands-on practice. These will motivate readers to master the circuit theory, especially college and university students or self-learners in this field. The English version of this book continues in the spirit of its successful Chinese version, which was published by Higher Education Press (the largest and most prominent publisher of educational books in China) in 2005 and reprinted in 2009.

Translate schematic diagrams into today's cutting-edge electronics Navigate the roadmaps of simple electronic circuits

and complex systems with help from an experienced engineer. With all-new art and demo circuits you can build, this hands-on, illustrated guide explains how to understand and create high-precision electronics diagrams. Find out how to identify parts and connections, decipher element ratings, and apply diagram-based information in your own projects. Beginner's Guide to Reading Schematics, Third Edition, also contains valuable appendices covering symbols and resistor color codes. Featuring detailed coverage of: Schematic, block, and pictorial diagrams Resistors and capacitors Inductors and transformers Switches, conductors, and cables Diodes, transistors, and logic gates Electron tubes Cells and batteries Voltage dividers and reducers Breadboards and wire wrapping Electronics troubleshooting

THE BOOK THAT MAKES ELECTRONICS MAKE SENSE This intuitive, applications-driven guide to electronics for hobbyists, engineers, and students doesn't overload readers with technical detail. Instead, it tells you-and shows you-what basic and advanced electronics parts and components do, and how they work. Chock-full of illustrations, Practical Electronics for Inventors offers over 750 hand-drawn images that provide clear, detailed instructions that can help turn theoretical ideas into real-life inventions and gadgets. **CRYSTAL CLEAR AND COMPREHENSIVE** Covering the entire field of electronics, from basics through analog and digital, AC and DC, integrated circuits (ICs), semiconductors, stepper motors and servos, LCD displays, and various input/output devices, this guide even includes a full chapter on the latest microcontrollers. A favorite memory-jogger for working electronics engineers, Practical Electronics for Inventors is also the ideal manual for those just getting started in circuit design. If you want to succeed in turning your ideas into workable electronic gadgets and inventions, is THE book. Starting with a light review of electronics history, physics, and math, the book provides an easy-to-understand overview of all major electronic elements, including: Basic passive components o Resistors, capacitors, inductors, transformers o Discrete passive circuits o Current-limiting networks, voltage dividers, filter circuits, attenuators o Discrete active devices o Diodes, transistors, thrysistors o Microcontrollers o Rectifiers, amplifiers, modulators, mixers, voltage regulators **ENTHUSIASTIC READERS HELPED US MAKE THIS BOOK EVEN BETTER** This revised, improved, and completely updated second edition reflects suggestions offered by the loyal hobbyists and inventors who made the first edition a bestseller. Reader-suggested improvements in this guide include: Thoroughly expanded and improved theory chapter New sections covering test equipment, optoelectronics, microcontroller circuits, and more New and revised drawings Answered problems throughout the book Practical Electronics for Inventors takes you through reading schematics, building and testing prototypes, purchasing electronic components, and safe work practices. You'll find all this in a guide that's destined to get your creative-and inventive-juices flowing.

Essential reading for experts in the field of RF circuit design and engineers needing a good reference. This book provides

complete design procedures for multiple-pole Butterworth, Chebyshev, and Bessel filters. It also covers capacitors, inductors, and other components with their behavior at RF frequencies discussed in detail. Provides complete design procedures for multiple-pole Butterworth, Chebyshev, and Bessel filters Covers capacitors, inductors, and other components with their behavior at RF frequencies discussed in detail

Analog Circuit Design

Electricity -- Electronic components -- Semiconductors -- Photonic semiconductors -- Integrated circuits -- Digital integrated circuits -- Linear integrated circuits -- Circuit assembly tips -- 100 electronic circuits.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Learn the basics of electronics and start designing and building your own creations! This follow-up to the bestselling Practical Electronics for Inventors shows hobbyists, makers, and students how to design useful electronic devices from readily available parts, integrated circuits, modules, and subassemblies. Practical Electronic Design for Experimenters gives you the knowledge necessary to develop and construct your own functioning gadgets. The book stresses that the real-world applications of electronics design—from autonomous robots to solar-powered devices—can be fun and far-reaching. Coverage includes: • Design resources • Prototyping and simulation • Testing and measuring • Common circuit design techniques • Power supply design • Amplifier design • Signal source design • Filter design • Designing with electromechanical devices • Digital design • Programmable logic devices • Designing with microcontrollers • Component selection • Troubleshooting and debugging

The Craft of Scientific Presentations, 2nd edition aims to strengthen you as a presenter of science and engineering. The book does so by identifying what makes excellent presenters such as Brian Cox, Jane Goodall, Richard Feynman, and Jill Bolte Taylor so strong. In addition, the book explains what causes so many scientific presentations to flounder. One of the most valuable contributions of this text is that it teaches the assertion-evidence approach to scientific presentations. Instead of building presentations, as most engineers and scientists do, on the weak foundation of topic phrases and bulleted lists, this assertion-evidence approach calls for building presentations on succinct message assertions supported by visual evidence. Unlike the commonly followed topic-subtopic approach that PowerPoint leads presenters to use, the assertion-evidence approach is solidly grounded in research. By showing the differences between strong and weak presentations, by identifying the errors that scientific presenters typically make, and by teaching a much more powerful approach for scientific presentations than what is commonly practiced, this book places you in a position to elevate your presentations to a high level. In essence, this book aims to have you not just succeed in your scientific presentations, but excel. About the Author Michael Alley has taught workshops on presentations to engineers and scientists on five continents, and has recently been invited to speak at the European Space Organization, Harvard Medical School, MIT, Sandia National Labs, Shanghai Jiao Tong University, Simula Research Laboratory, and United Technologies. An Associate Professor of engineering communication at Pennsylvania State University, Alley is a leading

researcher on the effectiveness of different designs for presentation slides.

An all-in-one resource on everything electronics-related! For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today's technology, this latest version combines concepts, self-tests, and hands-on projects to offer you a completely repackaged and revised resource. This unique self-teaching guide features easy-to-understand explanations that are presented in a user-friendly format to help you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm's law and current flow, and an acquaintance with first-year algebra. The question-and-answer format, illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed. Boasts a companion website that includes more than twenty full-color, step-by-step projects. Shares hands-on practice opportunities and conceptual background information to enhance your learning process. Targets electronics enthusiasts who already have a basic knowledge of electronics but are interested in learning more about this fascinating topic on their own. Features projects that work with the multimeter, breadboard, function generator, oscilloscope, bandpass filter, transistor amplifier, oscillator, rectifier, and more. You're sure to get a charge out of the vast coverage included in *Complete Electronics Self-Teaching Guide with Projects!*

At long last, here is the thoroughly revised and updated third edition of the hugely successful *Art of Electronics*. It is widely accepted as the best single authoritative book on electronic circuit design. In addition to new or enhanced coverage of many topics, the Third Edition includes: 90 oscilloscope screenshots illustrating the behavior of working circuits; dozens of graphs giving highly useful measured data of the sort that's often buried or omitted in data sheets but which you need when designing circuits; 80 tables (listing some 1650 active components), enabling intelligent choice of circuit components by listing essential characteristics (both specified and measured) of available parts. The new *Art of Electronics* retains the feeling of informality and easy access that helped make the earlier editions so successful and popular. It is an indispensable reference and the gold standard for anyone, student or researcher, professional or amateur, who works with electronic circuits.

This is the thoroughly revised and updated Second Edition of the hugely successful *The Art of Electronics*. Widely accepted as the single, authoritative text and reference on electronic circuit design, both analog and digital, this book has sold over 120,000 copies, and has been translated into eight languages. This book revolutionized the teaching of electronics by emphasizing the methods actually used by circuit designers--a combination of some basic laws, rules of thumb, and a large bag of tricks. The result is a largely nonmathematical treatment that encourages circuit intuition, brain storming, and simplified calculations of circuit values and performance. This completely new edition responds to the breakneck pace of change in electronics with totally rewritten chapters on microcomputers and microprocessors, substantially revised chapters on digital electronics, on op-amps and precision design, and on construction techniques. Every table has been revised, and many new ones have been added. The new *Art of Electronics* retains the feeling of informality and easy access that made the first edition so successful and popular.

A Fully Revised Guide to Electronics Troubleshooting and Repair Repair all kinds of electrical products, from modern digital

gadgets to analog antiques, with help from this updated book. How to Diagnose and Fix Everything Electronic, Second Edition, offers expert insights, case studies, and step-by-step instruction from a lifelong electronics guru. Discover how to assemble your workbench, use the latest test equipment, zero in on and replace dead components, and handle reassembly. Instructions for specific devices, including stereos, MP3 players, digital cameras, flat-panel TVs, laptops, headsets, and mobile devices are also included in this do-it-yourself guide. Choose the proper tools and set up your workbench Ensure personal safety and use proper eye and ear protection Understand how electrical components work and why they fail Perform preliminary diagnoses based on symptoms Use test equipment, including digital multimeters, ESR meters, frequency counters, and oscilloscopes Interpret block, schematic, and pictorial diagrams Disassemble products and identify sections Analyze circuits, locate faults, and replace dead parts Re-establish connections and reassemble devices

This updated resource shows how to interpret schematic diagrams—and design your own Written by an experienced engineer, this easy-to-follow TAB guide shows, step-by-step, how to navigate the roadmaps of electronic circuits and systems. Filled with new illustrations and DIY examples, the book clearly explains how to understand and create high-precision electronics diagrams. You will discover how to identify parts and connections, interpret element ratings, and apply diagram-based information in your own projects. Beginner's Guide to Reading Schematics, Fourth Edition, also contains valuable appendices covering symbols, resistor color codes, and parts suppliers. Up-to-date coverage includes:•Block, schematic, and pictorial diagrams •Resistors and capacitors •Inductors and transformers •Switches, relays, conductors, and cables •Diodes, transistors, Op amps, and logic gates •Electron tubes , cells, and batteries •Voltage dividers and reducers •Simple and complex circuits•Breadboards and wire wrapping •Electronics troubleshooting•Digital electronics and functional circuits•And much more

Focused on the field of knowledge lying between digital and analog circuit theory, this new text will help engineers working with digital systems shorten their product development cycles and help fix their latest design problems. The scope of the material covered includes signal reflection, crosstalk, and noise problems which occur in high speed digital machines (above 10 megahertz). This volume will be of practical use to digital logic designers, staff and senior communications scientists, and all those interested in digital design.

" With many programs compressing their courses in order to devote more time to the electronics system applications, such as communication, computing, industrial, and consumer, a strong need arises for a single electronics fundamentals text. Employing his now renowned student-friendly practical approach, Electronics: A Complete Course by Nigel Cook provides comprehensive coverage of the three electronics fundamental courses: Part A: DC/AC Electronics ; Part B: Semiconductor Devices ; Part C: Digital Circuits." - product description.

The Art of ElectronicsCambridge University Press

This introduction to circuit design is unusual in several respects. First, it offers not just explanations, but a full course. Each of the twenty-five sessions begins with a discussion of a particular sort of circuit followed by the chance to try it out and see how it

actually behaves. Accordingly, students understand the circuit's operation in a way that is deeper and much more satisfying than the manipulation of formulas. Second, it describes circuits that more traditional engineering introductions would postpone: on the third day, we build a radio receiver; on the fifth day, we build an operational amplifier from an array of transistors. The digital half of the course centers on applying microcontrollers, but gives exposure to Verilog, a powerful Hardware Description Language. Third, it proceeds at a rapid pace but requires no prior knowledge of electronics. Students gain intuitive understanding through immersion in good circuit design.

"This is teaching at its best!" --Hans Camenzind, inventor of the 555 timer (the world's most successful integrated circuit), and author of *Much Ado About Almost Nothing: Man's Encounter with the Electron* (Booklocker.com) "A fabulous book: well written, well paced, fun, and informative. I also love the sense of humor. It's very good at disarming the fear. And it's gorgeous. I'll be recommending this book highly." --Tom Igoe, author of *Physical Computing and Making Things Talk* Want to learn the fundamentals of electronics in a fun, hands-on way? With *Make: Electronics*, you'll start working on real projects as soon as you crack open the book. Explore all of the key components and essential principles through a series of fascinating experiments. You'll build the circuits first, then learn the theory behind them! Build working devices, from simple to complex You'll start with the basics and then move on to more complicated projects. Go from switching circuits to integrated circuits, and from simple alarms to programmable microcontrollers. Step-by-step instructions and more than 500 full-color photographs and illustrations will help you use -- and understand -- electronics concepts and techniques. Discover by breaking things: experiment with components and learn from failure Set up a tricked-out project space: make a work area at home, equipped with the tools and parts you'll need Learn about key electronic components and their functions within a circuit Create an intrusion alarm, holiday lights, wearable electronic jewelry, audio processors, a reflex tester, and a combination lock Build an autonomous robot cart that can sense its environment and avoid obstacles Get clear, easy-to-understand explanations of what you're doing and why

MMS - an amazing substance that consists of three atoms - can eliminate a large number of pathogens. In this book a medical doctor addresses the subject of MMS for the first time.

This manual satisfies two needs for students and teachers using *The Art of Electronics* as a text:" It sets forth 23 laboratory exercises that can form the backbone of a one- or two-semester course in electronics, both analog and digital" It supplements the text's explanations of selected topics which have been chosen for their importance to a student, rather than a practitioner who uses the text as a reference. The manual is a product of many years teaching at Harvard University, where the authors have tested and refined both lab exercises and explanations. The result is a set of course materials tailored to students needs, moving quickly where appropriate and slowly on those concepts that students have found most difficult.

"A hands-on primer for the new electronics enthusiast"--Cover.

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edition sold over 125,000 copies worldwide and was translated into eight languages. The book revolutionized the teaching of electronics by emphasizing the methods actually used by circuit designers - a combination of some basic laws, rules of thumb, and a large nonmathematical treatment that encourages circuit values and performance. The new Art of Electronics retains the feeling of informality and easy access that helped make the first edition so successful and popular. It is an ideal first textbook on electronics for scientists and engineers and an indispensable reference for anyone, professional or amateur, who works with electronic circuits.

Jump start your journey with electronics! If you've thought about getting into electronics, but don't know where to start, this book gives you the information you need. Starting with the basics of electricity and circuits, you'll be introduced to digital electronics and microcontrollers, capacitors and inductors, and amplification circuits – all while gaining the basic tools and information you need to start working with low-power electronics. Electronics for Beginners walks the fine line of focusing on projects-based learning, while still keeping electronics front and center. You'll learn the mathematics of circuits in an uncomplicated fashion and see how schematics map on to actual breadboards. Written for the absolute beginner, this book steers clear of being too math heavy, giving readers the key information they need to get started on their electronics journey. What You'll Learn Review the basic "patterns" of resistor usage—pull up, pull down, voltage divider, and current limiter Understand the requirements for circuits and how they are put together Read and differentiate what various parts of the schematics do Decide what considerations to take when choosing components Use all battery-powered circuits, so projects are safe Who This Book Is For Makers, students, and beginners of any age interested in getting started with electronics.

Want to learn even more about electronics in a fun, hands-on way? If you finished the projects in Make: Electronics, or if you're already familiar with the material in that book, you're ready for Make: More Electronics. Right away, you'll start working on real projects, and you'll explore all the key components and essential principles through the book's collection of experiments. You'll build the circuits first, then learn the theory behind them! This book picks up where Make: Electronics left off: you'll work with components like comparators, light sensors, higher-level logic chips, multiplexers, shift registers, encoders, decoders, and magnetic sensors. You'll also learn about topics like audio amplification, randomness, as well as positive and negative feedback. With step-by-step instructions, and hundreds of color photographs and illustrations, this book will help you use -- and understand -- intermediate to advanced electronics concepts and techniques.

Small-Signal Audio Design is an essential for audio equipment designers and engineers for one simple reason; it enables you as a professional to develop reliable, high-performance circuits. This practical handbook not only teaches

you the basic fundamentals but shows you how to apply opamps and discrete transistors in the preamplifier and signal-processing areas of audio and other low-frequency areas. It provides you with the necessary in-depth information, with presentations on the technologies that power the equipment- hi-fi preamplifiers, audio mixers, electronic crossovers, among others. Full of valuable information it includes exceptional audio mixer material, based on the authors 19 year design experience, revealing a lot of specialized information that has never been published before. Get answers to your most critical questions, insight into development techniques, and best-practices on optimizing features that will define your product's success.

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