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Switching Power Supplies A - Z - Sanjaya Maniktala 2012-04-04

Chapter 1: The Principles of Switching Power Conversion Chapter 2: DC-DC Converter Design and Magnetics Chapter 3: Off-line Converter Design and Magnetics Chapter 4: The Topology FAQ Chapter 5: Optimal Core Selection Chapter 6: Component Ratings, Stresses, Reliability and Life Chapter 7: Optimal Power Components Selection Chapter 8: Conduction and Switching Losses Chapter 9: Discovering New Topologies Chapter 10: Printed Circuit Board Layout Chapter 11: Thermal Management Chapter 12: Feedback Loop Analysis and Stability Chapter 13: Paralleling, Interleaving and Sharing Chapter 14: The Front-End of AC-DC Power Supplies Chapter 15: DM and CM Noise in Switching Power Supplies Chapter 16: Fixing EMI across the Board Chapter 17: Input Capacitor and Stability Chapter 18: The Math behind the Electromagnetic Puzzle Chapter 19: Solved Examples Appendix A.

Pointers to the Common Remedies - M. L. Tyler 2003-06

Bayonets of the World - Paul Kiesling 2010-01-15

Bayonets of the World was originally published from 1972 to 1976 in four volumes, and over 40 years later it is still the reference work by which all other books are measured. This new publication, Bayonets of the World: The Complete Edition, contains all drawings and information from the original version, but is extended with new information and drawings, arranged into 47 national chapters, depicting and describing circa 1100 different bayonets by country. Further, this new edition contains indices on markings, manufacturers, lengths and countries. The absolute standard work on the subject. AUTHOR Paul Kiesling owned one of the largest and finest collection of bayonets of the world. In the seventies, he combined his collection, knowledge and drawing talents with those of other collectors and museums and composed the best book on the subject ever. ILLUSTRATIONS 1100 photographs

RF Circuit Design - Christopher Bowick 2014-06-28

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 - Jim Williams 2016-06-30

Analog Circuit Design

Audio Power Amplifier Design - Douglas Self 2013-07-04

This book is essential for audio power amplifier designers and engineers for one simple reason...it enables you as a professional to develop reliable, high-performance circuits. The Author Douglas Self covers the major issues of distortion and linearity, power supplies, overload, DC-protection and reactive loading. He also tackles unusual forms of compensation and distortion produced by capacitors and fuses. This completely updated fifth edition includes four NEW chapters including one on The XD Principle, invented by the author, and used by Cambridge Audio. Crosstalk, power amplifier input systems, and

microcontrollers in amplifiers are also now discussed in this fifth edition, making this book a must-have for audio power amplifier professionals and audiophiles.

A Strong Hand - Catt Ford 2009-04-13

Nicholas Sayers, needing money for college, takes a job as assistant to infamous photographer Damian Wolfe. It's just taking pictures, right? Wrong. While Nick has never questioned what kind of man he is or what he truly wants in life, working for Damian during a BDSM photo shoot opens his eyes to all sorts of sexual possibilities, and many of them include the handsome Mr. Wolfe. Damian has serious doubts about getting involved with a younger man who knows nothing about the BDSM lifestyle, but Nick's adventurous and humorous approach to new experiences is far too alluring to resist. Although he knows it might be a mistake, Damian takes Nick into his life. Flirting on the edges of control, submission, and pain excites Nick more than he would have ever dreamed possible. With Damian, Nick learns about his own deeply hidden desires and finds out that relinquishing control doesn't make him weak—having someone else in control of his sexual pleasure simply heightens it. And the reverse is true for Damian: Control turns him on. So they set out to explore these sensual boundaries together, neither expecting to find love along the way.

Switching Power Supply Design - Abraham I. Pressman 1998

Mathematically sufficient without being unnecessarily academic; this practical book's tutorial; how-to approach shows how even a novice can immediately design a complete switching power supply circuit. -- Audio Power Amplifier Design Handbook - Douglas Self 2006

Preface; Introduction and general survey; History, architecture and negative feedback; The general principles of power amplifiers; The small signal stages; The Class-B output stage; The output stage II; Compensation, slew-rate, and stability; Power supplies and PSRR; Class-A power amplifiers; Class D power amplifiers; Class-G power amplifiers; FET output stages; Thermal compensation and thermal dynamics; Amplifier and loudspeaker protection; Grounding and practical matters; Testing and safety; Index.

Semiconductor Power Devices - Josef Lutz 2011-01-15

Semiconductor power devices are the heart of power electronics. They determine the performance of power converters and allow topologies with high efficiency. Semiconductor properties, pn-junctions and the physical phenomena for understanding power devices are discussed in depth. Working principles of state-of-the-art power diodes, thyristors, MOSFETs and IGBTs are explained in detail, as well as key aspects of semiconductor device production technology. In practice, not only the semiconductor, but also the thermal and mechanical properties of packaging and interconnection technologies are essential to predict device behavior in circuits. Wear and aging mechanisms are identified and reliability analyses principles are developed. Unique information on destructive mechanisms, including typical failure pictures, allows assessment of the ruggedness of power devices. Also parasitic effects, such as device induced electromagnetic interference problems, are addressed. The book concludes with modern power electronic system integration techniques and trends.

One Summer - David Baldacci 2011-06-14

David Baldacci delivers a moving, family drama about learning to love again after terrible heartbreak and loss in this classic New York Times bestseller—soon to be a Hallmark original movie. It's almost Christmas,

but there is no joy in the house of terminally ill Jack and his family. With only a short time left to live, he spends his last days preparing to say goodbye to his devoted wife, Lizzie, and their three children. Then, unthinkably, tragedy strikes again: Lizzie is killed in a car accident. With no one able to care for them, the children are separated from each other and sent to live with family members around the country. Just when all seems lost, Jack begins to recover in a miraculous turn of events. He rises from what should have been his deathbed, determined to bring his fractured family back together. Struggling to rebuild their lives after Lizzie's death, he reunites everyone at Lizzie's childhood home on the oceanfront in South Carolina. And there, over one unforgettable summer, Jack will begin to learn to love again, and he and his children will learn how to become a family once more.

Kyudo - Hideharu Onuma 1993

This guide to the spiritual and technical practice of this graceful martial art, by 15th-generation master Hideharu Onuma, includes illustrations and rare photographs. Kyudo-the Way of the Bow-is the oldest of Japan's traditional martial arts and the one most closely associated with bushido, the Way of the Warrior. After the Second World War Eugen Herrigel introduced the concept of kyudo to the West in his classic Zen in the Art of Japanese Archery. But until now, no Japanese kyudo master has published a book on his art in English. In Kyudo: The Essence and Practice of Japanese

The Hardware Startup - Renee DiResta 2015-05-20

Thanks to the decreasing cost of prototyping, it's more feasible for professional makers and first-time entrepreneurs to launch a hardware startup. But exactly how do you go about it? This book provides the roadmap and best practices you need for turning a product idea into a full-fledged business. Written by three experts from the field, The Hardware Startup takes you from idea validation to launch, complete with practical strategies for funding, market research, branding, prototyping, manufacturing, and distribution. Two dozen case studies of real-world startups illustrate possible successes and failures at every stage of the process. Validate your idea by learning the needs of potential users Develop branding, marketing, and sales strategies early on Form relationships with the right investment partners Prototype early and often to ensure you're on the right path Understand processes and pitfalls of manufacturing at scale Jumpstart your business with the help of an accelerator Learn strategies for pricing, marketing, and distribution Be aware of the legal issues your new company may face

English Pistols - Howard L. Blackmore 1985

Takes as its inspiration the Royal Armouries' fine collection of English pistols. This text looks at the technical and artistic development of the pistol and covers a period from the 16th century, when English gunmaking was at its height, up until the 20th.

Injection Molds for Beginners - Rainer Dangel 2020-04-06

This applications-oriented book describes the construction of an injection mould from the ground up. Included are explanations of the individual types of tools, components, and technical terms; design procedures; techniques, tips, and tricks in the construction of an injection mould; and pros and cons of various solutions. Based on a plastic part ("bowl with lid") specially developed for this book, easily understandable text and many illustrative pictures and drawings provide the necessary knowledge for practical implementation. Step by step, the plastic part is modified and enhanced. The technologies and designs that are additionally needed for an injection mould are described by engineering drawings. Maintenance and repair, and essential manufacturing techniques are also discussed. Now in full color, this second edition builds on the success of the first, with updates and small corrections throughout, as well as an new expanded section covering the process chain.

Introduction to Electromagnetic Compatibility - Clayton R. Paul 2006-01-03

A landmark text thoroughly updated, including a new CD As digital devices continue to be produced at increasingly lower costs and with higher speeds, the need for effective electromagnetic compatibility (EMC) design practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations. The Second Edition of this landmark text has been thoroughly updated and revised to reflect these major developments that affect both academia and the electronics industry. Readers familiar with the First Edition will find much new material, including: * Latest U.S. and international regulatory requirements * PSpice used throughout the textbook to simulate EMC

analysis solutions * Methods of designing for Signal Integrity * Fortran programs for the simulation of Crosstalk supplied on a CD * OrCAD(r) PSpice(r) Release 10.0 and Version 8 Demo Edition software supplied on a CD * The final chapter on System Design for EMC completely rewritten * The chapter on Crosstalk rewritten to simplify the mathematics Detailed, worked-out examples are now included throughout the text. In addition, review exercises are now included following the discussion of each important topic to help readers assess their grasp of the material. Several appendices are new to this edition including Phasor Analysis of Electric Circuits, The Electromagnetic Field Equations and Waves, Computer Codes for Calculating the Per-Unit-Length Parameters and Crosstalk of Multiconductor Transmission Lines, and a SPICE (PSPICE) tutorial. Now thoroughly updated, the Second Edition of Introduction to Electromagnetic Compatibility remains the textbook of choice for university/college EMC courses as well as a reference for EMC design engineers. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Software and Hardware Engineering - Fredrick M. Cady 2009-06-04

Software and Hardware Engineering is designed for courses in the architecture and design of microprocessors, using Freescale's (formerly Motorola) star processor, the M68HC(S)12, as its core example. This text can be used for the microcontrollers/microprocessors/microcomputers course, taught in Electrical and Computer engineering departments, usually dovetailing with the computer architecture course (pre-requisite or co-requisite). Students taking this course will have already taken a programming course (or any C or assembly language) and introductory logic design. In this second edition, more of the core principles of microcontroller theory, beyond the specifics of HC12 implementation, are integrated into the text. The new edition is updated to cover changes in the technology.

Swords of the Viking Age - 2002

Representative examples of swords from 8th-11th century, fully described and illustrated, with general overview.

Islamic Weapons - Anthony C. Tirri 2004

High-speed Digital Design - Howard W. Johnson 1993-01-01

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.

Switchmode Power Supply Handbook - Keith Billings 1999

Unarguably the leading hands-on guide in this rapidly expanding area of electronics, Keith Billings' new revision of his Switchmode Power Supply Handbook brings state-of-the-art techniques and developments to engineers at all levels. Offering sound working knowledge of the latest in topologies and clear, step-by-step approaches to component decisions, this Handbook gives power supply designers practical, solutions-oriented design guidance free of unnecessarily complicated mathematical derivations and theory. This thoroughly updated Handbook features many new fully worked examples, as well as numerous nomograms-everything you need to design today's smaller, faster, and cooler systems. Turn to just about any page, and you'll find cutting-edge design expertise on electronic ballast, power factor correction, new thermal management techniques, transformers, chokes, input filters, EMI control, converters, snubber circuits, auxiliary systems, and much more. The most comprehensive book on power supply design available anywhere, Switchmode Power Supply Handbook is the industry standard, now fully updated for the 21st century.

Japanese Sword Guards - Gary Murtha 2014-06-01

The Samurai Sword - John M. Yumoto 2011-10-01

This best-selling handbook to the samurai sword details the origins and development; its historical background, styles and famous schools; differences in construction; and outlines methods of identifying and

researching the sword, as well as caring for it properly.

Nanometer CMOS ICs - Harry J.M. Veendrick 2017-04-28

This textbook provides a comprehensive, fully-updated introduction to the essentials of nanometer CMOS integrated circuits. It includes aspects of scaling to even beyond 12nm CMOS technologies and designs. It clearly describes the fundamental CMOS operating principles and presents substantial insight into the various aspects of design implementation and application. Coverage includes all associated disciplines of nanometer CMOS ICs, including physics, lithography, technology, design, memories, VLSI, power consumption, variability, reliability and signal integrity, testing, yield, failure analysis, packaging, scaling trends and road blocks. The text is based upon in-house Philips, NXP Semiconductors, Applied Materials, ASML, IMEC, ST-Ericsson, TSMC, etc., courseware, which, to date, has been completed by more than 4500

engineers working in a large variety of related disciplines: architecture, design, test, fabrication process, packaging, failure analysis and software.

The Art and Science of Analog Circuit Design - Jim Williams 1998-08-24

In this companion text to Analog Circuit Design: Art, Science, and Personalities, seventeen contributors present more tutorial, historical, and editorial viewpoints on subjects related to analog circuit design. By presenting divergent methods and views of people who have achieved some measure of success in their field, the book encourages readers to develop their own approach to design. In addition, the essays and anecdotes give some constructive guidance in areas not usually covered in engineering courses, such as marketing and career development. *Includes visualizing operation of analog circuits *Describes troubleshooting for optimum circuit performance *Demonstrates how to produce a saleable product