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Pinpoint: How GPS is Changing Technology, Culture, and Our Minds

Greg Milner 2016-05-03 "One of the most mesmerizing and exhilarating, yet alarming modern technology books...an extraordinary tale."

—Gillian Tett, Financial Times
Pinpoint tells the fascinating story of a hidden system that touches nearly every aspect of modern life. Tracking the development of GPS from its origins as a bomb guidance system to its present ubiquity, Greg Milner

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examines the technology's double-edged effect on the way we live, work, and travel. Savvy and original, this sweeping scientific history offers startling insight into how humans understand their place in the world.

Intermediate Financial Accounting Kin Lo 2011-01-01

Switching Power Supplies A to Z

Sanjaya Maniktala 2012 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.

Intermediate Accounting Kin Lo

2013-01-02 Note: If you are purchasing an electronic version, MyAccountingLab does not come automatically packaged with it. To purchase MyAccountingLab, please visit www.MyAccountingLab.com or you can purchase a package of the

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physical text and MyAccountingLab by searching for ISBN 10: 0133098648 / ISBN 13: 9780133098648. A ground-up Canadian textbook that bridges theory and practice, integrating the 'what', the 'how', and the 'why' of understanding and interpreting financial statements as accountants and as business managers through a clearly integrated Conceptual Framework. Lo/Fisher is praised for its readability and conversational writing style that helps students better understand difficult concepts in Accounting.

Switch-Mode Power Converters Keng C. Wu 2005-12-01 *Switch-Mode Power Converters* introduces an innovative, highly analytical approach to symbolic, closed-form solutions for switched-mode power converter circuits. This is a highly relevant

topic to power electronics students and professionals who are involved in the design and analysis of electrical power converters. The author uses extensive equations to explain how solid-state switches convert electrical voltages from one level to another, so that electronic devices (e.g., audio speakers, CD players, DVD players, etc.) can use different voltages more effectively to perform their various functions. Most existing comparable books published as recently as 2002 do not discuss closed-loop operations, nor do they provide either DC closed-loop regulation equations or AC loop gain (stability) formulae. The author Wu, a leading engineer at Lockheed Martin, fills this gap and provides among the first descriptions of how error amplifiers are designed in

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conjunction with closed-loop bandwidth selection. BENEFIT TO THE READER: Readers will gain a mathematically rigorous introduction to numerous, closed-form solutions that are readily applicable to the design and development of various switch-mode power converters. Provides symbolic, closed-form solutions for DC and AC studies Provides techniques for expressing close-loop operation Gives readers the ability to perform closed-loop regulation and sensitivity studies Gives readers the ability to design error amplifiers with precision Employs the concept of the continuity of states in matrix form Gives accelerated time-domain, steady-state studies using Laplace transform Gives accelerated time-domain studies using state transition Extensive use of

matrix, linear algebra, implicit functions, and Jacobian determinants Enables the determination of power stage gain that otherwise could not be obtained

Study Guide, Volume II (Chapters 15-24) to accompany Intermediate Accounting Donald E. Kieso 2009-04-21 Each study guide chapter is comprised of a detailed chapter review, demonstration problems, true/false, multiple-choice, matching questions, and comprehensive exercises. Solutions to study guide questions are provided.

High-frequency Switching Power Supplies George Chryssis 1989 **Intermediate Accounting** Donald E. Kieso 2019-04-26 Intermediate Accounting, 12th Edition, Volume 1, continues to be the number one intermediate accounting resource in

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the Canadian market. Viewed as the most reliable resource by accounting students, faculty, and professionals, this course helps students understand, prepare, and use financial information by linking education with the real-world accounting environment. This new edition now incorporates new data analytics content and up-to-date coverage of leases and revenue recognition.

Electronic Circuits for the Evil Genius 2/E Dave Cutcher 2010-10-22
The Fiendishly Fun Way to Master Electronic Circuits! Fully updated throughout, this wickedly inventive guide introduces electronic circuits and circuit design, both analog and digital, through a series of projects you'll complete one simple lesson at a time. The separate lessons build on

each other and add up to projects you can put to practical use. You don't need to know anything about electronics to get started. A pre-assembled kit, which includes all the components and PC boards to complete the book projects, is available separately from ABRA electronics on Amazon. Using easy-to-find components and equipment, *Electronic Circuits for the Evil Genius, Second Edition*, provides hours of rewarding--and slightly twisted--fun. You'll gain valuable experience in circuit construction and design as you test, modify, and observe your results--skills you can put to work in other exciting circuit-building projects. *Electronic Circuits for the Evil Genius: Features step-by-step instructions and helpful illustrations* Provides tips for

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customizing the projects Covers the underlying electronics principles behind the projects Removes the frustration factor--all required parts are listed, along with sources Build these and other devious devices: Automatic night light Light-sensitive switch Along-to-digital converter Voltage-controlled oscillator Op amp-controlled power amplifier Burglar alarm Logic gate-based toy Two-way intercom using transistors and op amps Each fun, inexpensive Genius project includes a detailed list of materials, sources for parts, schematics, and lots of clear, well-illustrated instructions for easy assembly. The larger workbook-style layout and convenient two-column format make following the step-by-step instructions a breeze. Make Great Stuff! TAB, an imprint of

McGraw-Hill Professional, is a leading publisher of DIY technology books for makers, hackers, and electronics hobbyists.

An Introduction to the Mathematics and Methods of Astrodynamics Richard H. Battin 1999

Chicken Soup for the Nurse's Soul

Jack Canfield 2012-08-07 This collection of true stories champions the daily contributions, commitments and sacrifices of nurses.

Nonlinear Circuits Handbook Analog Devices, inc 1976 Basic operations. Applications of nonlinear devices. Function fitting. Function generation. Instruments and data acquisition. Communications and signal processing. Computing and control. Understanding nonlinear circuits. About logarithmic circuits. About multipliers. About dividers.

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About nonlinear integrated circuits. Discontinuous approximations. Multifunction devices: powers & roots. Root mean-square. Aids for the designer. Log-circuits applications. Log ratio applications. Antilog applications. Multiplying and squaring.

Concepts from Tensor Analysis and Differential Geometry Tracy Y. Thomas 2016-06-03 Concepts from Tensor Analysis and Differential Geometry discusses coordinate manifolds, scalars, vectors, and tensors. The book explains some interesting formal properties of a skew-symmetric tensor and the curl of a vector in a coordinate manifold of three dimensions. It also explains Riemann spaces, affinely connected spaces, normal coordinates, and the general theory of extension. The book

explores differential invariants, transformation groups, Euclidean metric space, and the Frenet formulae. The text describes curves in space, surfaces in space, mixed surfaces, space tensors, including the formulae of Gaus and Weingarten. It presents the equations of two scalars K and Q which can be defined over a regular surface S in a three dimensional Riemannian space R . In the equation, the scalar K , which is an intrinsic differential invariant of the surface S , is known as the total or Gaussian curvature and the scalar U is the mean curvature of the surface. The book also tackles families of parallel surfaces, developable surfaces, asymptotic lines, and orthogonal ennuples. The text is intended for a one-semester course for graduate students of pure

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mathematics, of applied mathematics covering subjects such as the theory of relativity, fluid mechanics, elasticity, and plasticity theory. *Buying Guide 2007 Canadian Edition* Consumer Reports 2006-11-14 In today's marketplace, there are an array of products that can be purchased and several ways to buy them. Consumers today are faced with numerous choices when deciding on which products to purchase. The choice ultimately comes down to the consumers specific wants and needs. "Is this the right product for me? Will I get my money's worth in this product? Which brand is the best for me?" What it all comes down to is... Are consumers doing their homework to determine the best value out there that will fulfill their wants and needs? Consumer Reports Buying Guide

2007 is an ideal resource for consumers. It's a one-stop source for making intelligent, money saving purchases for all home buying needs. This compact reference guide contains over 900 brand-name ratings along with invaluable information on what products are available, important features, latest trends and expert advice for: -Home office equipment - Digital cameras and camcorders -Home entertainment -Cellular Phones -Home and yard tools -Kitchen appliances - Vacuum cleaners and washing machines -Reviews of 2007 cars , minivans, pickups and SUV's -And so much more! From refrigerators to home theater systems, Consumer Reports Buying Guide 2007 prepares consumers with pertinent information in selecting a suitable product for their needs. Using this guide will ultimately pay

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off in valuable product knowledge, time saved, and perhaps paying a lower price.

Switchmode Power Supply Handbook 3/E

Keith Billings 2010-10-06 The definitive guide to switchmode power supply design--fully updated Covering the latest developments and techniques, Switchmode Power Supply Handbook, third edition is a thorough revision of the industry-leading resource for power supply designers. New design methods required for powering small, high-performance electronic devices are presented. Based on the authors' decades of experience, the book is filled with real-world solutions and many nomograms, and features simplified theory and mathematical analysis. This comprehensive volume explains common requirements for direct

operation from the AC line supply and discusses design, theory, and practice. Engineering requirements of switchmode systems and recommendations for active power factor correction are included. This practical guide provides you with a working knowledge of the latest topologies along with step-by-step approaches to component decisions to achieve reliable and cost-effective power supply designs. Switchmode Power Supply Handbook, third edition covers: Functional requirements of direct off-line switchmode power supplies Power components selection and transformer designs for converter circuits Transformer, choke, and thermal design Input filters, RFI control, snubber circuits, and auxiliary systems Active power factor correction system design Worked

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examples of would components Examples of fully resonant and quasi-resonant systems A resonant inverter fluorescent ballast An example of high-power phase shift modulated system A new MOSFET resonant inverter drive scheme A single-control, wide-range wave oscillator

Intermediate Accounting Michelle Hanlon 2019-06-05

Cambridge International AS and A Level Accounting Revision Guide Ian Harrison 2013-11-29 Get your best grades with this Cambridge International AS and A Level Accounting Revision Guide. - Manage your own revision with step-by-step support from experienced examiners Ian Harrison and Michael Hillman - Maintain an appropriate international focus in exams with examples and case studies from around the world - Get

the top marks by applying accounting terms accurately with the help of definitions and key words Use the Revision Guide to prepare for the big day: - Plan and pace your revision with the revision planner- Use the expert tips to clarify key points - Avoid making typical mistakes with expert advice - Test yourself with rapid-fire questions and answers and tick off each topic as you complete it - Practise your exam skills with exam-style questions Also available: Cambridge International AS and A Level Accounting textbook by Ian Harrison (ISBN: 9781444181432). This title has not been through the Cambridge endorsement process.

Buying Guide 2007 Consumer Reports 2006-11-14 The editors of Consumer Reports rate a wide range of consumer items, in an updated buying guide for

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new products, which includes advice on how to purchase kitchen appliances, automobiles, entertainment products, and home office equipment, along with more than nine hundred product ratings, brand repair histories, and other helpful features. Original. 350,000 first printing.

Beyond Slash, Burn, and Poison Marcy Jane Knopf-Newman 2004 .

Advanced Financial Accounting: Instructor's resource manual Richard E. Baker 1989

Power Electronics Design Keith H. Sueker 2011-04-01 This book serves as an invaluable reference to Power Electronics Design, covering the application of high-power semiconductor technology to large motor drives, power supplies, power conversion equipment, electric

utility auxiliaries and numerous other applications. Design engineers, design drafters and technicians in the power electronics industry, as well as students studying power electronics in various contexts, will benefit from Keith Sueker's decades of experience in the industry. With this experience, the author has put the overall power electronics design process in the context of primary electronic components and the many associated components required for a system. The seeming complexity of power electronics design is made transparent with Keith Sueker's simple, direct language and a minimum reliance on mathematics. Readers will come away with a wealth of practical design information that has hundreds of explanatory diagrams to support it, having also seen many examples of

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potential pitfalls in the design process. * A down-to-earth approach, free of complex jargon and esoteric information. * Over 200 illustrations to clarify discussion points. *

Examples of costly design goofs will provide invaluable cautionary advice.

How to Troubleshoot & Repair

Electronic Circuits Robert L. Goodman

1981 "Do-it-yourselfer's practical problem-solving guide to home electronics!"--Cover subtitle.

Digital Power Electronics and Applications Fang Lin Luo 2010-07-20

The purpose of this book is to describe the theory of Digital Power Electronics and its applications. The authors apply digital control theory to power electronics in a manner thoroughly different from the traditional, analog control scheme. In order to apply digital control

theory to power electronics, the authors define a number of new parameters, including the energy factor, pumping energy, stored energy, time constant, and damping time constant. These parameters differ from traditional parameters such as the power factor, power transfer efficiency, ripple factor, and total harmonic distortion. These new parameters result in the definition of new mathematical modeling:

- A zero-order-hold (ZOH) is used to simulate all AC/DC rectifiers.
- A first-order-hold (FOH) is used to simulate all DC/AC inverters.
- A second-order-hold (SOH) is used to simulate all DC/DC converters.
- A first-order-hold (FOH) is used to simulate all AC/AC (AC/DC/AC) converters.

* Presents most up-to-date methods of analysis

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and control algorithms for developing power electronic converters and power switching circuits * Provides an invaluable reference for engineers designing power converters, commercial power supplies, control systems for motor drives, active filters, etc. * Presents methods of analysis not available in other books.

Constitutional Mythologies Alain Marciano 2011-08-02 Our societies obviously rest on common beliefs. These "myths" are tools that help us to develop and build common identities; they form the structure around which societies function. This does not imply that these beliefs are "true," in the sense that they would be supported by empirical facts. In social matters, myths have undoubtedly important functions to

play even if no empirical facts support them. On the other hand, and precisely because they are not discussed, myths may be problematic: they may create illusions, conserve structures that are inefficient and unable to improve the situation of citizens. This is particularly true with constitutions. Constitutions are very important for societies: a constitution is a document – even in societies based on “unwritten” constitutions – which binds citizens together, creating unity among them, and which forms the framework within which our activities take place. As Nobel Prize laureate James Buchanan used to say: constitutions contain the rules of the social game we play in our everyday life. However, constitutions are not frequently debated by citizens. This is why we

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end up with common beliefs about these constitutions: they are above our heads, around us. We take them, their role, function, and nature as given. The purpose of this volume to investigate and challenge common constitutional myths. Featuring contributions from prominent economists, political scientists, and legal scholars, the chapters in this volume address such myths as “constitutions are binding social contracts,” “constitutions are economic documents” and “constitutions are legal documents.” Illustrating their analyses with historical and contemporary examples from the United States, Canada, and Europe, the authors build a multi-layered approach to understanding constitutions and their implications for social and political influence.

Power Supply Cookbook Marty Brown
2001-06-13 Power Supply Cookbook, Second Edition provides an easy-to-follow, step-by-step design framework for a wide variety of power supplies. With this book, anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day. With the common industry design approaches presented in each section, this unique book allows the reader to design linear, switching, and quasi-resonant switching power supplies in an organized fashion. Formerly complicated design topics such as magnetics, feedback loop compensation design, and EMI/RFI control are all described in simple language and design steps. This book also details easy-to-modify design examples that provide the reader with a design

template useful for creating a variety of power supplies. This newly revised edition is a practical, "start-to-finish" design reference. It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the information they need. Features of the new edition include updated information on the design of the output stages, selecting the controller IC, and other functions associated with power supplies, such as: switching power supply control, synchronization of the power supply to an external source, input low voltage inhibitors, loss of power signals, output voltage shut-down, major current loops, and paralleling filter capacitors. It also offers coverage of waveshaping techniques, major loss reduction techniques,

snubbers, and quasi-resonant converters. Guides engineers through a step-by-step design framework for a wide variety of power supplies, many of which can be designed in less than one day Provides easy-to-understand information about often complicated topics, making power supply design a much more accessible and enjoyable process

Consumer Reports Volume Seventy-one
2006

How to Use Oscilloscopes and Other Test Equipment R. A. Penfold 1989

Explains the use of oscilloscopes and other electronic diagnostic tools and equipment.

Clinical Pathology Board Review E-Book Steven L. Spitalnik 2014-09-22

Clinical Pathology Board Review covers all of the major subject areas of clinical pathology, presenting you

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with an essential study guide for certification or recertification. Designed as a companion to Anatomic Pathology Board Review, 2nd Edition, this brand-new medical reference book will be a welcome resource for pathology residents and practicing pathologists alike. Understand all of the major subject areas of clinical pathology tested on the Clinical Pathology board exam, including chemistry, hematology, coagulation, microbiology, immunology (including HLA testing), transfusion medicine (including therapeutic apheresis), cytogenetics, and molecular diagnostics. Prepare for the boards with help from multiple-choice questions offered in a format that mimics that of the actual test. Effectively grasp key concepts with questions that integrate various

areas of clinical pathology, as well as questions that bridge concepts in clinical pathology with those in anatomic pathology. Understand why an answer is correct or incorrect with help from brief explanations accompanying each. Review key concepts in laboratory medicine, correlate them to the associated clinical or laboratory information, and apply them to the diagnosis and management of human disease. Designed as a companion to Anatomic Pathology Board Review, 2nd Edition (ISBN: 9781455711406).

Accounting Paul D. Kimmel 2013-07-11

Practical Switching Power Supply Design Martin C. Brown 2012-12-02

Take the "black magic" out of switching power supplies with Practical Switching Power Supply Design! This is a comprehensive

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"hands-on" guide to the theory behind, and design of, PWM and resonant switching supplies. You'll find information on switching supply operation and selecting an appropriate topology for your application. There's extensive coverage of buck, boost, flyback, push-pull, half bridge, and full bridge regulator circuits. Special attention is given to semiconductors used in switching supplies. RFI/EMI reduction, grounding, testing, and safety standards are also detailed. Numerous design examples and equations are given and discussed. Even if your primary expertise is in logic or microprocessor engineering, you'll be able to design a power supply that's right for your application with this essential guide and reference! Gives special

attention to resonant switching power supplies, a state-of-the-art trend in switching power supply design Approaches switching power supplies in an organized way beginning with the advantages of switching supplies and their basic operating principles Explores various configurations of pulse width modulated (PWM) switching supplies and gives readers ideas for the direction of their designs Especially useful for practicing design engineers whose primary specialty is not in analog or power engineering fields

Business Schools and their Contribution to Society Mette Morsing 2011-10-18 Electronic Inspection Copy available for instructors here Business schools are arguably some of the most influential institutions in contemporary society. The research

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and education they provide set the standard for how future leaders manage local and global organizations - a responsibility requiring continual discussion, development and challenge. This exciting book explores the role of business schools through 3 key dimensions: - How business school legitimacy has been challenged by the recent economic crisis and corporate scandals; - How schools contribute to shaping and transforming business conduct; and - How institutions, past and present, develop their identities to face the challenges presented by the ongoing globalization process. Combining global perspectives from business school Deans, scholars and stakeholders, this book presents a unique discussion of the current and future challenges facing business

schools and their contributions to society.
Practical Design of Power Supplies
Ron Lenk 2005-07-11 Practical Design of Power Supplies "In a rare and very welcome departure from the power industry's standard technical treatise, Ron Lenk's book . . . offers a clear, pragmatic view of the practical real-world aspects governing power supply design Engineers at all levels . . . can expect to gain an enlightened perspective normally gained only after years of design experience." -- Frank Wahl, Managing Editor, PCIM Magazine "This is a real hands-on reference in which Ron has done an outstanding job of combining just enough theory for understanding, together with several lifetimes' worth of experience. I am confident

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that it is destined to become dog-eared and worn on the top of every power supply designer's desk." --Bob Mammano, Vice President Advanced Technology, Unitrode Practical Design of Power Supplies details key techniques and offers advice to engineers and technicians who want to design and build power supplies that work the first time they are turned on. Leading authority Ron Lenk presents current, experiment-based information that can save hours of research and design time. Containing many handy "Practice Notes" and real-world examples, Practical Design of Power Supplies is an excellent how-to reference to keep by your side throughout the design, lab, and production phases. The topics covered will be immediately useful in everyday circuits and systems work: *

Common terms and instrumentation *
How to design successful magnetics *
How to compensate the feedback loop to obtain stable operation *
Practical EMI * Topology selection *
Worst-case analysis Practical Design of Power Supplies will be especially useful to designers who need to understand and implement the concepts behind loop compensation and magnetics design.

Intermediate Accounting, Vol. 2, Loose Leaf Version Kin Lo 2019-02
Power Sources and Supplies: World Class Designs Marty Brown 2011-04-08
Newnes has worked with Marty Brown, a leader in the field of power design to select the very best design-specific material from the Newnes portfolio. Marty selected material for its timelessness, its relevance to current power supply design needs,

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and its real-world approach to design issues. Special attention is given to switching power supplies and their design issues, including component selection, minimization of EMI, toroid selection, and breadboarding of designs. Emphasis is also placed on design strategies for power supplies, including case histories and design examples. This is a book that belongs on the workbench of every power supply designer! *Marty Brown, author and power supply design consultant, has personally selected all content for its relevance and usefulness *Covers best design practices for switching power supplies and power converters *Emphasis is on pragmatic solutions to commonly encountered design problems and tasks

Cognitive Ecologies and the History

of Remembering E. Tribble 2011-01-01
This book unites research in philosophy and cognitive science with cultural history to re-examine memory in early modern religious practices. Offering an ecological approach to memory and culture, it argues that models derived from Extended Mind and Distributed Cognition can bridge the gap between individual and social models of memory.

The Hitchhiker's Guide to PCB Design
Ema Design Automation 2019-02-19
Want to create a solid, manufacturable PCB the first time? Well, you're in luck. Get the only book you will ever need to upgrade your PCB knowledge and launch your career to new heights. Forget the school of hard-knocks and learn all the things industry experts wish they knew when starting out. With over 100 pages of content

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including checklists, pro-tips, and detailed illustrations, you'll gain decades of wisdom in a fraction of the time. Read the Hitchhikers Guide to PCB Design to be entertained and learn - How to create a robust and manufacturable PCB layout beyond routing the rats - Why it's important to incorporate DFX (Design for Excellence) and the many topics it covers - Who your project stakeholders are and why their involvement is essential for design success - PCB Design best practices you need to know and more BONUS- You can get a FREE digital download of the guide by visiting the EMA Design Automation website.

Demystifying Switching Power Supplies

Raymond A. Mack 2011-03-14 This book is a crash course in the fundamental theory, concepts, and terminology of

switching power supplies. It is designed to quickly prepare engineers to make key decisions about power supplies for their projects. Intended for readers who need to quickly understand the key points of switching power supplies, this book covers the 20% of the topic that engineers use, 80% of the time. Unlike existing switching power supply books that deal strictly with design issues, this book also recognizes the growing importance of "off-the-shelf" commercial switching power supplies, giving readers the background necessary to select the right commercial supply. This book covers the core essentials of power supply theory and design while keeping mathematics to the absolute minimum necessary. Special attention is given to the selection of

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appropriate components, such as inductors and transformers, to ensure safe and reliable operation. Engineers, whose main design responsibilities are in other areas, will better understand the strengths and weaknesses of switching power supplies and whether such supplies are appropriate for their projects. They will be able to give more meaningful design requirements and specifications to those who design switching power supplies. * Discusses both AC line supplies and DC-DC inverters. * Covers the main switching power supply designs, including flyback, forward conversion, bridge, buck, boost, and boost/buck topologies. * Design examples include a 220 volt offline switching power supply and a 110 volt uninterruptible supply.

The Coolest Inventor Alison Eldridge
2014-01-01 Icy cold air conditioning is very common in many people's lives, but there was a time when this popular luxury did not exist. People had to think of other ways to keep cool on hot, humid days. It was also too hot in factories and hospitals, theaters and cars. Willis Carrier changed all that. Authors Alison and Stephen Eldridge explore how his love of science and fixing things led to a lifetime of adventure, research, and the discovery of air conditioning. *Switching Power Supply Design, 3rd Ed.* Abraham Pressman 2009-03-26 The World's #1 Guide to Power Supply Design Now Updated! Recognized worldwide as the definitive guide to power supply design for over 25 years, *Switching Power Supply Design* has been updated to cover the latest

innovations in technology, materials, and components. This Third Edition presents the basic principles of the most commonly used topologies, providing you with the essential information required to design cutting-edge power supplies. Using a tutorial, how-and-why approach, this expert resource is filled with design examples, equations, and charts. The Third Edition of Switching Power Supply Design features: Designs for many of the most useful switching power supply topologies The core principles required to solve day-to-day design problems A strong focus on the essential basics of transformer and magnetics design New to this edition: a full chapter on choke design and optimum drive conditions for modern fast IGBTs Get Everything You Need to Design a Complete

Switching Power Supply: Fundamental Switching Regulators * Push-Pull and Forward Converter Topologies * Half- and Full-Bridge Converter Topologies * Flyback Converter Topologies * Current-Mode and Current-Fed Topologies * Miscellaneous Topologies * Transformer and Magnetics Design * High-Frequency Choke Design * Optimum Drive Conditions for Bipolar Power Transistors, MOSFETs, Power Transistors, and IGBTs * Drive Circuits for Magnetic Amplifiers * Postregulators * Turn-on, Turn-off Switching Losses and Low Loss Snubbers * Feedback-Loop Stabilization * Resonant Converter Waveforms * Power Factor and Power Factor Correction * High-Frequency Power Sources for Fluorescent Lamps, and Low-Input-Voltage Regulators for Laptop Computers and Portable

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Equipment

Power-Switching Converters Dorin O. Neacsu 2014-10-31 Power converters are at the heart of modern power electronics. From automotive power systems to propulsion for large ships, their use permeates through

industrial, commercial, military, and aerospace applications of various scales. Having reached a point of saturation where we are unlikely to see many new and revolutionary technologies, industry no