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Ready-made SPICE power supply solutions Now you can get solutions to the most difficult problems facing power supply designers: shrinking size and increased thermal constraints. Christophe Basso's SMPS SPICE Cookbook is a complete designer's toolkit with tested, ready-to-run SPICE models on an accompanying CD-ROM. The models come in all three SPICE flavors with demo versions. You can start from scratch,

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installing the software and simulating the examples in the book without any SPICE experience whatsoever. All the common SMPS topologies are covered: buck, boost, buck-boost, and SEPIC. Each is described in terms of relative strengths and weaknesses and then modeled. Just turn to the CD, pull out the model in the flavor of SPICE you use, plug in your own values – and out comes a design solution. All the models in the book have been carefully simulated and tested. A special website even lets you access new models that will be posted on a continuing basis

Take the "black magic" out of switching power

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supplies with Practical Switching Power Supply Design! This is a comprehensive "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

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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 thier basic operating principles Explores various configurations of pulse width modulated (PWM) switching supplies and gives readers ideas for the direction of their designs

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Especially useful for practicing design engineers whose primary specialty is not in analog or power engineering fields

Switched mode power supplies are now established as an industry standard method of providing power to many types of electronic equipment. This book provides thorough, up-to-date coverage of all aspects of switched mode power supply technology. Covers the full range of topics associated with the successful design and production of a switched mode power supply. -- Provides a sound, rigorous treatment of the theory, as well as practical applications, to allow

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the reader to achieve a suitable design and functionally satisfactory switched mode power supply. -- Considerably expanded since the first edition. The second edition includes coverage of electromagnetic compatibility, the main statutory regulations associated with switched mode power supply production, and validated simulation programs.

Radio

The Voltage Regulator Handbook

Practical Switching Power Supply Design

Fierce Mercy

Optoelectronics Device Data

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A guide to nearly 1,000 sailing routes covering all the oceans of the world, geared specifically to the needs of cruising sailors. It advises on the winds, currents, regional and seasonal weather, and optimum times for individual routes, plus over 6,000 waypoints.

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

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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,

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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. For courses in College Physics. Bringing the best of physics education research to a trusted and classic text For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for students around the world. New coauthors Phil Adams and Ray Chastain thoroughly revised the 10th Edition by

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incorporating the latest methods from educational research. New features help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the

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History of that Part of the Susquehanna and Juniata Valleys

Technology from the Unitrode/Texas Instruments Power Supply Design Seminars

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World Cruising Handbook

*** Describes the operation of each circuit in detail**

*** Examines a wide selection of external components that modify the IC package characteristics**

*** Provides hands-on, essential information for designing a switching power supply**

Simplified Design of Switching Power Supplies is an all-inclusive, one-stop guide to switching power-supply design. Step-by-step instructions and diagrams render this book essential for the student and the experimenter, as well as the design professional. Simplified Design of Switching Power Supplies concentrates

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on the use of IC regulators. All popular forms of switching supplies, including DC-DC converters, inverters, buck, boost, buck-boost, pulse frequency modulation, pulse width modulation, current-mode control and pulse skipping, are described in detail. The design examples may be put to immediate use or may be modified to meet a specific design goal. As an instructional text for those unfamiliar with switching supplies, or as a reference for those in need of a refresher, this unique book is essential for those involved in switching power-supply design.

Abby Johnson thought she knew what mercy was

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when she ushered desperate women toward abortion as the director of a Planned Parenthood facility. She was wrong. It wasn't until she understood the blood on her hands that she personally experienced the power of God's fierce yet tender mercy to transform her life. But she never imagined what could happen once she allowed that very mercy to infiltrate her life and spill out into a hurting world. In Fierce Mercy, Abby calls you to experience a transformation of your own. Against the backdrop of her first decade involved in the pro-life movement, Abby helps you discover God's unrestrained mercy at

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work in your own life and take steps toward becoming a channel of that life-changing mercy in the world around you. She shows you how to model God's mercy, freely offer mercy to those who seem undeserving, respond with mercy when others err or offend, and bear witness to God's unrestrained compassion so that others may know him. This is Abby's challenge to you: dare to do what is hard, what is right, and what is good. And do all of it in love.

KEY BENEFIT: For more than five decades, Sears and Zemansky's College Physics has provided the most reliable foundation of physics education for

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readers around the world. For the Eighth Edition, Robert Geller joins Hugh Young to produce a comprehensive update of this benchmark text. A broad and thorough introduction to physics, this new edition carefully integrates many solutions from educational research to help readers to develop greater confidence in solving problems, deeper conceptual understanding, and stronger quantitative-reasoning skills, while helping them connect what they learn with their other courses and the changing world around them. KEY TOPICS: Models, Measurements, and Vectors, Motion along a Straight Line, Motion in a Plane,

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Newton's Laws of Motion, Applications of Newton's Laws, Circular Motion and Gravitation, Work and Energy, Momentum, Rotational Motion, Dynamics of Rotational Motion, Elasticity and Periodic Motion, Mechanical Waves and Sound, Fluid Mechanics, Temperature and Heat, Thermal Properties of Matter, The Second Law of Thermodynamics, Electric Charges, Forces and Fields, Electric Potential and Electric Energy, Electric Current and Direct-Current Circuits, Magnetism, Magnetic Flux and Faraday's Law of Induction, Alternating Currents, Electromagnetic Waves, Geometric Optics, Optical Instruments,

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Interference and Diffraction, Relativity, Photons, Electrons, and Atoms, Atoms, Molecules, and Solids, 30 Nuclear and High-Energy Physics For all readers interested in most reliable foundation of physics education.

W1FB's QRP Notebook

The Lancet

IC Master

Switch-mode Power Supply SPICE Cookbook

1000 Sailing Routes in All Oceans of the World

'What Jimmy Cornell doesn't know about cruising isn't worth knowing' - Yachting World One of the most influential cruising

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yachtsmen writing today, Jimmy Cornell has sailed over 200,000 miles on all the oceans of the world, including three circumnavigations and voyages to the Arctic and Antarctic. His successful guide to sailing around the world, World Cruising Routes, has helped many aspirational voyagers turn their dreams into reality and follow in his footsteps. Here in its extensively revised edition is its partner, covering all the land-based essentials for cruisers. This substantial handbook profiles every cruising

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destination in the world, with information on cruising attractions, history, culture, climate(including average monthly temperatures and rainfall, plus tropical storm seasons), local laws, regulations and formalities, facilities available, plus public holidays and events, emergency telephone numbers, and much more. Everything the cruiser needs to know about. Lavishly illustrated throughout, it is not only a must-have onboard reference work for long distance sailors, but will undoubtedly inspire the adventurous to

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sail where they have never sailed before.

An exploration of life in the early medieval West, using pigs as a lens to investigate agriculture, ecology, economy, and philosophy. In the early medieval West, from North Africa to the British Isles, pigs were a crucial part of agriculture and culture. In this fascinating book, Jamie Kreiner examines how this ubiquitous species was integrated into early medieval ecologies and transformed the way that people thought about the world around them. In this world, even the smallest

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things could have far-reaching consequences. Kreiner tracks the interlocking relationships between pigs and humans by drawing on textual and visual evidence, bioarchaeology and settlement archaeology, and mammal biology. She shows how early medieval communities bent their own lives in order to accommodate these tricky animals—and how in the process they reconfigured their agrarian regimes, their fiscal policies, and their very identities. In the end, even the pig's own identity was

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transformed: at the close of the early Middle Ages, it had become a riveting metaphor for Christianity itself.

Whether you are a student, a newly-minted engineer entering the field of power electronics, a salesperson needing to understand a customer's needs, or a seasoned power supply designer desiring to track down a forgotten equation, this book will be a significant aid. Beginning with the basic definition of a power supply, we will traverse through voltage regulation techniques and the components necessary

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for their implementation, and then move on to the myriad of circuit topologies and control algorithms prevalent in modern-day design solutions. Separate chapters on feedback-loop compensation and magnetic design principles will build on this foundation, along with in-depth descriptions for dealing with regulations for electromagnetic compatibility, human safety, and energy efficiency issues. Additional chapters will describe the value proposition for digital control and the practical aspects power supply

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construction.

Studies in Roman and Byzantine Law

The Art of Electronics

Legions of Pigs in the Early Medieval West

Manual of lexicography

The TTL Data Book

The International Conference on Applied Electronics is a regular event organized yearly from 1996 by the University of West Bohemia in Pilsen, Czech Republic The aim is to provide a forum for researchers and practitioners interested in advances in the wide scope of electronic circuits and systems, especially in applications of theoretical research The papers should report original work and applied ideas, including experimental results All papers are peer to peer reviewed

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If you're looking for construction projects for QRP transmitters, receivers and accessories, look no further. Experience first-hand the thrill of making contacts using equipment that you built!

The increased efficiency and quality constraints imposed on electrical energy systems have inspired a renewed research interest in the study of formal approaches to the analysis and control of power electronics converters. Switched systems represent a useful framework for modeling these converters and the peculiarities of their operating conditions and control goals justify the specific classification of “ switched electronic systems ” . Indeed, idealized switched models of power converters introduce problems not commonly encountered when analyzing generic switched models or non-switched electrical networks. In that sense the analysis of switched electronic systems represents a source for new ideas and benchmarks for switched and

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hybrid systems generally. Dynamics and Control of Switched Electronic Systems draws on the expertise of an international group of expert contributors to give an overview of recent advances in the modeling, simulation and control of switched electronic systems. The reader is provided with a well-organized source of references and a mathematically-based report of the state of the art in analysis and design techniques for switched power converters. Intuitive language, realistic illustrative examples and numerical simulations help the reader to come to grips with the rigorous presentation of many promising directions of research such as: converter topologies and modulation techniques; continuous-time, discrete-time and hybrid models; modern control strategies for power converters; and challenges in numerical simulation. The guidance and information imparted in this text will be appreciated by engineers, and applied mathematicians

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working on system and circuit theory, control systems development, and electronic and energy conversion systems design.

Microwave Transmission Line Filters

Power Supply Cookbook

Simplified Design of Switching Power Supplies

College Physics, Global Edition

Fundamentals of Power Supply Design

Dynamics and Control of Switched Electronic Systems
Advanced Perspectives for Modeling, Simulation and Control of Power Converters
Springer Science & Business Media

From original manuscripts David Howlett edits, translates, and analyses twenty-four Latin charters - English, Welsh, Cornish, Irish, Scottish, and

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Hebridean - from the 7th century to the 15th, as monuments of thought and composition parallel to the literary and epigraphic traditions of these islands. This revolutionary analysis presents charters of local variety but underlying unity, in which complex self-authenticating mathematical structures produce works of art of astonishing and apprehensible beauty.

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

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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

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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

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complicated topics, making power supply design a much more accessible and enjoyable process

2021 International Conference on Applied Electronics (AE)

Mathematical Reviews

Electron Flow Version

Embraced in the Counties of Mifflin, Juniata, Perry, Union and Snyder, in the Commonwealth of Pennsylvania

Switchmode Power Supply Handbook

An all-in-one guide to design, applications, and operation--with hundreds of helpful schematics and diagrams. Updated to cover new IC technology, low-voltage logic devices, and one-watt power supplies for ISDN

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equipment. Detailed enough for professional engineers and technicians . . . accessible enough for students and hobbyists.

This book provides an exceptionally clear introduction to DC/AC circuits supported by superior exercises, examples, and illustrations--and an emphasis on troubleshooting and applications. It features an exciting full color format which uses color to enhance the instructional value of photographs, illustrations, tables, charts, and graphs. Throughout the book's coverage, the use of mathematics is limited to only those concepts that are needed for understanding. Floyd's acclaimed troubleshooting emphasis, as always, provides learners with the problem solving experience they need for a successful career in

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electronics. Chapter topics cover components, quantities and units; voltage, current, and resistance; Ohm's Law; energy and power; series circuits; parallel circuits; series-parallel circuits; circuit theorems and conversions; branch, mesh, and node analysis; magnetism and electromagnetism; an introduction to alternating current and voltage; phasors and complex numbers; capacitors; inductors; transformers; RC circuits; RL circuits; RLC circuits and resonance; basic filters; circuit theorems in AC analysis; pulse response of reactive circuits; and polyphase systems in power applications. For electronics technicians, electronics teachers, and electronics hobbyists.

World Cruising Handbook is a companion volume to Jimmy Cornell's internationally best-selling World Cruising Routes

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and contains invaluable practical information on all aspects of cruising worldwide. The third edition of World Cruising Handbook has been thoroughly revised to bring it in line with the enormous changes brought about by the Internet revolution. Entries for all 185 maritime nations of the world have been thoroughly revised in order to gather together in a single volume all the practical information anyone would need when planning to sail anywhere in the world. Section I cover matters of general interest such as cruising formalities, health precautions, and radio and satellite communications. Section II describes the history, economy, political situation, culture, climate, language and religion of 185 countries and dependencies, as well as giving an insight into the cruising attractions of each country. Detailed

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information is provided on: Ports of entry Customs, health and immigration requirements Clearance procedures, cruising permits and bonds Ports, marinas and technical facilities Local time, currency, business hours, public holidays, electricity, etc. Section III contains information on IALA buoyage, U.S. and British chart agents worldwide and a glossary of useful terms in several languages. World Cruising Handbook is the indispensable reference guide for long distance sailors. The information in this book is continuously updated on www.noonsite.com, Jimmy Cornell's website for cruising sailors.

Motorola Power MOSFET Transistor Data
Microprocessor Support Chips Sourcebook
Design and Construction

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World Cruising Destinations
India Rubber and Tire Review