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L6OR7K - ALEXANDER HUNTER

Now with a new introduction for the Tor Essentials line, *A Fire Up-on the Deep* is sure to bring a new generation of SF fans to Vinge's award-winning works. A Hugo Award-winning Novel! "Vinge is one of the best visionary writers of SF today."-David Brin
Thousands of years in the future, humanity is no longer alone in a universe where a mind's potential is determined by its location in space, from superintelligent entities in the Transcend, to the limited minds of the Unthinking Depths, where only simple creatures, and technology, can function. Nobody knows what strange force partitioned space into these "regions of thought," but when the warring Straumli realm use an ancient Transcendent artifact as a weapon, they unwittingly unleash an awesome power that destroys thousands of worlds and enslaves all natural

and artificial intelligence. Fleeing this galactic threat, Ravna crash lands on a strange world with a ship-hold full of cryogenically frozen children, the only survivors from a destroyed space-lab. They are taken captive by the Tines, an alien race with a harsh medieval culture, and used as pawns in a ruthless power struggle. Tor books by Vernor Vinge
Zones of Thought Series
A Fire Up-on The Deep
A Deepness In The Sky
The Children of The Sky
Realtime/Bobble Series
The Peace War
Marooned in Realtime
Other Novels
The Witling
Tatja Grimm's World
Rainbows End
Collections
Collected Stories of Vernor Vinge
True Names
At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Power Supply design is all about detail. And a large part of that detail lies in the practical domain, largely because of the typically small number of microseconds of switching periods involved, and

the even smaller tens of nanoseconds of switch transition times -- all these, in effect accentuating various "second-order" effects, that eventually end up playing prime havoc with "normal" expectations of how the circuit should behave. So not unsurprisingly, even after reading several books, most readers still find themselves no closer to the ultimate goal of designing an actual power supply. Sooner or later, all engineers start realizing the hard fact that designing a switching power supply isn't the trivial task it once seemed to be. But even after years of successfully mastering the underlying theory, the ultimate goal of creating a cost-effective, reliable and commercially viable power supply may still remain a distant dream, since success ultimately hinges on experience. That is, in fact, what clearly differentiates a senior and seasoned power supply engineer from the others --- the ability to navigate and surmount a veritable minefield of tricky issues that can only be learned the hard way, by actual hands-on experience on the job. This book presents practical knowledge the author acquired rather painfully, while working "in the trenches" for several years in major engineering companies scattered across several continents. This is intended to be the mythical senior engineer's "bag of tricks," finally made available in the form of an easy-to-read book on your shelf. This book will make life for the ambitious power supply engineer much simpler --- besides reducing significantly, the rigorous requirement of having to be a senior engineer's protégé for years on end, just to gain a small measure of real success in this field. * A practical presentation that answers the important question: why is my switching converter behaving so differently than what I was expecting on the basis of my paper design? And how do I bridge that huge gap? * For the first time, a

systematic and thorough discussion of troubleshooting switching power supplies. * Coverage of AC/DC and DC/DC power supplies. * Bench Evaluation of semiconductor ICs used in power conversion --- describing standard and unusual techniques mastered by the author, while testing similar chips at National Semiconductor. * Detailed coverage of vital topics that haven't been covered by available sources --- grounding systems, the subtleties of component datasheets, and using instruments and probes effectively. * Systematic investigation (type of failure mechanism, topology, etc.) and solutions for 5 years of reported power supply issues on a prominent, public web forum. This approach will ensure that engineers will not repeat the same mistakes. * A unique, readable style: personal and direct; no mystification--- just the plain truth, easily and logically explained, with plenty of pictures, graphs and plots.

Written specifically with service technicians and engineers in mind, this book is designed as a bench-side companion and guide to the principles involved in repairing and adjusting CD players. Engineers will find this a helpful companion to the various service manuals. The text takes a problem solving approach with numerous examples, circuit diagrams and line drawings. Engineers who need to achieve a better understanding of CD technology will find this book an essential tool for fault diagnosis, adjustment and repair. This book not only covers the mechanical design but also the integrated circuits within a CD player. It is written for immediate application and is well illustrated, so it should become a welcome addition to the rack of tools available to the service engineer. Ken Clements has extensive experience of the service industry both as a service manager and later in technical training with

Sony and Pioneer. It is his hands-on knowledge that makes the book so valuable, not only as a wide-ranging reference but also as a benchtop manual to be kept within reach at all times when working with CD players.

Cheryl Schmidt's *The Complete A+ Guide to PC Repair, Fifth Edition Update* presents the fundamentals of computer desktop and laptop installation, configuration, maintenance, and networking through simple, step-by-step instruction based on CompTIA A+® 2011 Edition objectives. With a focused emphasis on security and customer service skills, this comprehensive book on computer repair introduces the most important tools students need to become professional, customer-friendly technicians using today's technology. The A+ Certification Exam criteria are being updated, effective January 2011, to include Windows 7. The Fifth Edition Update now includes Windows 7 material.

Troubleshooting Analog Circuits is a guidebook for solving product or process related problems in analog circuits. The book also provides advice in selecting equipment, preventing problems, and general tips. The coverage of the book includes the philosophy of troubleshooting; the modes of failure of various components; and preventive measures. The text also deals with the active components of analog circuits, including diodes and rectifiers, optically coupled devices, solar cells, and batteries. The book will be of great use to both students and practitioners of electronics engineering. Other professionals dealing with electronics will also benefit from the text, such as electric technicians.

CD-ROM contains: INTUSOFT demo CD version 1.9, OrCAD evaluation software 9.1, MicroCap evaluation 6.1.3, and PSIM demo ver-

sion 4.1a.

A unique visual approach to troubleshooting PC hardware problems. Morris Rosenthal creates a visual expert system for diagnosing component failure and identifying conflicts. The seventeen diagnostic flowcharts at the core of this book are intended for the intermediate to advanced hobbyist, or the beginning technician. Following a structured approach to troubleshooting hardware reduces the false diagnoses and parts wastage typical of the "swap 'till you drop" school of thought. Flowcharts include: Power Supply Failure, Video Failure, Video Performance, Motherboard, CPU, RAM Failure, Motherboard, CPU, RAM Performance, IDE Drive Failure, Hard Drive Boot and Performance, CD or DVD Playback, CD or DVD Recording Problem, Modem Failure, Modem Performance, Sound Failure, Sound and Game Controller Performance, Network Failure, Peripheral Failure, SCSI Failure and Conflict Resolution.

The most complete home improvement manual on the market, this newly updated edition of *Ultimate Guide to Home Repair and Improvement* offers thousands of how-to photos, 800 drawings, and understandable text on plumbing and electrical repairs, heating and cooling, remodeling, and more. With 325 step-by-step DIY projects, build basic skills and learn to complete home projects and repairs yourself! New edition includes current code updates and changes, as well as information on USB outlets, AFCI/GFCI breakers, and tankless water heaters.

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 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 construction.

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.

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of ex-

perts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care

personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

The one book that shows you how to fix anything anywhere in your home! There are a million things that can go wrong in your home. Faucets leak. Floorboards creak. Paint flakes. Chairs break. With *How to Fix Absolutely Anything*, you'll have step-by-step instructions to tackle even the most confounding repairs in your home, including:

- Installing a toilet
- Replacing the belts on your washer and dryer
- Patching up a hole in the wall
- Bringing a power adapter back to life
- Re-covering chairs
- Getting wax out of your carpet
- And many more!

From changing lightbulbs to fixing a kitchen cabinet hinge, *How to Fix Absolutely Anything* is a collection of the most indispensable advice and tips from people across the world who face the same problems you do. Hundreds of color photographs and easy-to-follow instructions make this book perfect for all levels of experience. It's a no-brainer for any homeowner, and the one gift to get any friend, family member, or loved one living on their own for the first time. Broke the microwave handle and don't know what to do? With *How to Fix Absolutely Anything*, the solution is only a few pages away.

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. --

This practical guide to switch-mode power supplies is designed to provide technicians with a better understanding of how power supplies operate. It also provides practical, useful procedures to

follow when you are troubleshooting switch-mode power supplies. The definitive guide to switchmode power supply design--fully updated Covering the latest developments and techniques, *Switch-mode 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 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

The operational amplifier ("op amp") is the most versatile and

widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

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. Covers set-up, maintenance, tuners, acoustic adjustments, nut replacement, fret dressing, refretting, guitar electronics, finish application and repair, and useful tools.

Virtually every electronic device uses some kind of internal or external DC power supply. This skillbuilding guide provides the tools needed to master this critical area through hands-on projects and experiments

Upgrading and Repairing PCs, Linux Edition addresses Linux-specific hardware issues that do not arise with Windows or DOS. Based on Upgrading and Repairing PCs, 11th Edition, this book

covers Linux information such as system requirements, installation and setup, drive partitioning, kernel parameters, memory, and compatibility between Linux and components and components with each other. While Windows has a slick installation that automatically determines most of the hardware in a PC, Linux users still must struggle to identify, configure, and install the hardware in their PCs. This book is an essential reference to understand how your PC hardware works, how it interacts with Linux, and how to troubleshoot, repair, and upgrade the components in a Linux system.

The Laptop Repair Workbook includes twelve full page troubleshooting flowcharts for laptop hardware troubleshooting and explanatory text for every decision point. The book begins with an introduction to basic laptop terminology, troubleshooting procedures, and cost decisions. Supplementary illustrated tests and procedures are available on the publisher's website, www.fonerbooks.com. An ebook version is also available direct from the publisher.

Spine title: Chilton small appliance repair and maintenance. Explains how to maintain, diagnose problems, and fix electric appliances.

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 sup-

plies 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.

Not an engineer, but need to know the basics of battery backup power? UPS Handbook breaks down the complex world of Uninterruptible Power Supply systems into simple-to-understand language. If you need to know the basics of UPS systems but not the expertise of how to repair them, this book is for you. ?What is an Uninterruptible Power Supply system? ?How do they work??Which is right for you? ?What is a UPS topology? ?What maintenance is

needed??What is the most preventable failure??Batteries: what are they, and why are they important??What are the advantages of modularity? The author answers these questions and more in UPS Handbook, a Layman's Guide to UPS Systems.Learn from others in case studies highlighting the problems they experienced and how to prevent them from happening to you.After finishing this helpful resource, you will not only have the knowledge to make informed decisions about your backup power system, but you will speak the language of electricians, engineers, and technicians.

The official FAA guide to maintenance methods, techniques, and practices essential for all pilots and aircraft maintenance...

Why throw away that broken PC? You can fix it - really! Fixing it will save you much needed cash - and keeping your hardware out of the trash is good for the environment, too. Best of all, you don't need to be a technical expert to do most typical computer repairs - and this book proves it. If you've found other computer repair books too complicated (or too cute), you're in the right place. McFedries covers everything you need to know, get, and do, in plain English, with plenty of crystal-clear pictures.

COMPUTER REPAIR Smartiepants was written for the computer novice. COMPUTER REPAIR Smartiepants will teach the computer challenged person or senior how to diagnose and repair over 85% of all computer problems without requiring the assistance of a computer store or technical guru. This book was written by a Computer Store owner whose stores have serviced over 50,000 computers, tablets, phones and monitors since 1988. No technical expertise is necessary to follow the instructions provided. The read-

er will learn the "Three Golden Rules" for staying out of computer trouble, how to diagnose any problem (not just computers) and how to recover when a computer crashes with a minimum of effort. The reader will also learn how to diagnose whether a computer problem is hardware or software related, how to repair or re-install Windows, how to remove viruses, spyware and malware, how to speed up a computer., how to get free online help with a computer problem you can't diagnose, the best free programs and online websites, the real cost of "free stuff", how to get priority treatment from a manufacturer, questions to ask at a computer service counter (if you need to use one) and how to determine if a computer is worth fixing in the first place. Other useful information includes how to retrieve data from a broken computer, how to properly return a computer for warranty repair, how to select a printer and save money on printer ink and toner, how to quickly fix web browser and wireless problems, mistakes users make that junk up their computers, social media blunders, desktop versus notebook repairs, how to use a trainer and when not to use onsite service. Also covered is basic hardware repair, how to learn Windows without a trainer, online safety, extended warranties, PCs versus Apple and the most important Windows screen to learn. Also covered are minor repairs for printers and how to select a printer based off ink and toner costs, repairs on Smartphones, Tablets, and in-home Internet problems. Finally the book covers how to diagnose most problems within 5 minutes, websites for ongoing free computer help, access to free ongoing blog help and how to hire the author if low cost high quality computer assistance is required. A must read for any computer challenged person that would like more control over a cranky comput-

er. The author has 30 years experience repairing computers. His clientele was primarily seniors and computer challenged people and COMPUTER REPAIR Smartiepants was written for them.

Take the "black magic" out of switching power 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 al-

so detailed. Numerous design examples and equations are given and discussed. Even if your primary expertise is in logic or micro-processor 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 Especially useful for practicing design engineers whose primary specialty is not in analog or power engineering fields