

PRACTICAL SWITCHING POWER SUPPLY DESIGN

SIMPLIFIED DESIGN OF SWITCHING POWER SUPPLIES SIMPLIFIED DESIGN OF LINEAR POWER SUPPLIES SWITCH-MODE POWER SUPPLY DESIGN PRACTICAL SWITCHING POWER SUPPLY DESIGN OPTIMAL DESIGN OF SWITCHING POWER SUPPLY SWITCHED MODE POWER SUPPLIES HIGH-FREQUENCY SWITCHING POWER SUPPLIES SWITCHING POWER SUPPLY DESIGN, 3RD ED. DESIGN OF SOLID-STATE POWER SUPPLIES DESIGN AND OPERATION OF REGULATED POWER SUPPLIES POWER SOURCES AND SUPPLIES: WORLD CLASS DESIGNS SWITCHING POWER SUPPLY DESIGN PRACTICAL DESIGN OF POWER SUPPLIES SWITCHING AND LINEAR POWER SUPPLY, POWER CONVERTER DESIGN FUNDAMENTALS OF POWER SUPPLY DESIGN SWITCHING POWER SUPPLY DESIGN & OPTIMIZATION POWER SUPPLY COOKBOOK POWER SUPPLY DESIGN: CONTROL UPS SYSTEM DESIGN HANDBOOK COMPUTER-AIDED ANALYSIS AND DESIGN OF SWITCH-MODE POWER SUPPLIES JOHN LENK JOHN D. LENK P. R. K. CHETTY MARTY BROWN ZHANYOU SHA H. W. WHITTINGTON GEORGE CHRYSSIS ABRAHAM PRESSMAN EUGENE R. HNATEK IRVING M. GOTTLIEB MARTY BROWN ABRAHAM I. PRESSMAN RON LENK ABRAHAM I. PRESSMAN ROBERT MAMMANO SANJAYA MANIKTALA MARTY BROWN RAYMOND B. RIDLEY PER GRANDJEAN-THOMSEN LEE

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AN INTRODUCTION TO SWITCHING POWER SUPPLY DESIGN FOR STUDENTS EXPERIMENTERS AND SERIOUS HOBBYISTS WITH NO EXPERIENCE IN CIRCUIT DESIGN AND A QUICK REFERENCE AND BOOK OF TRICKS FOR VETERAN TECHNICIANS AND ENGINEERS CONCENTRATES ON THE USE OF INTEGRATED CIRCUIT REGULATORS AND EXTERNAL COMPONENTS THAT MODIFY THE CHARACTERISTICS OF THE CIRCUIT PACKAGE THE DESIGNS SHOWN CAN BE USED IMMEDIATELY OR ADAPTED FOR SPECIAL APPLICATION ANNOTATION COPYRIGHT BY BOOK NEWS INC PORTLAND OR

NO PREVIOUS DESIGN EXPERIENCE IS REQUIRED TO USE THE TECHNIQUES DESCRIBED ALL POPULAR FORMS OF LINEAR SUPPLIES ARE COVERED IN DETAIL INCLUDING ZENER 3 TERMINAL FEEDBACK CURRENT FOLDBACK OP AMP SERIES SHUNT AND IC PACKAGE EXTENSIVE USE OF HEADINGS AND SUBHEADINGS HELPS THE READER SEEKING INFORMATION ON SPECIFIC TYPES OF SUPPLIES SIMPLIFIED DESIGN OF LINEAR POWER SUPPLIES IS AN ALL INCLUSIVE ONE STOP GUIDE TO LINEAR POWER SUPPLY DESIGN USING STEP BY STEP INSTRUCTIONS AND DIAGRAMS THE FIRST HALF OF THE BOOK DESCRIBES HOW LINEAR POWER SUPPLIES OPERATE AND EXPLAINS WHAT IS REQUIRED TO DESIGN SUCH SUPPLIES THE SECOND HALF PROVIDES SPECIFIC DESIGN EXAMPLES USING THE TECHNIQUES DESCRIBED IN THE FIRST HALF THE BASIC APPROACH IS TO START DESIGN PROBLEMS WITH APPROXIMATIONS FOR TRIAL VALUE COMPONENTS IN EXPERIMENTAL CIRCUITS THEN TO VARY THE COMPONENT VALUES UNTIL THE DESIRED RESULTS INPUT OUTPUT VOLTAGE AND CURRENT LINE AND LOAD REGULATION RIPPLE

REJECTION NOISE ETC ARE PRODUCED THE DESIGN EXAMPLES CAN BE PUT TO IMMEDIATE USE AS IS OR CAN BE MODIFIED AS REQUIRED TO MEET A SPECIFIC DESIGN GOAL BY FOLLOWING THE INSTRUCTIONS

WHY USE SWITCHING POWER SUPPLIES HOW A SWITCHING POWER SUPPLY WORKS A WALK THROUGH A REPRESENTATIVE SWITCHING POWER SUPPLY
SWITCHING POWER SUPPLY TOPOLOGIES SEMICONDUCTORS USED IN A SWITCHING POWER SUPPLY THE MAGNETIC COMPONENTS WITHIN A SWITCHING POWER
SUPPLY CROSS REGULATION OF THE OUTPUTS PROTECTION MISCELLANEOUS TOPICS CLOSING THE LOOP FEEDBACK AND STABILITY RESONANT CONVERTERS AN
INTRODUCTION SWITCHING POWER SUPPLY DESIGN EXAMPLES

A CONTEMPORARY EVALUATION OF SWITCHING POWER DESIGN METHODS WITH REAL WORLD APPLICATIONS WRITTEN BY A LEADING AUTHOR RENOWNED IN HIS
FIELD FOCUSES ON SWITCHING POWER SUPPLY DESIGN MANUFACTURE AND DEBUGGING SWITCHING POWER SUPPLIES HAVE RELEVANCE FOR CONTEMPORARY
APPLICATIONS INCLUDING MOBILE PHONE CHARGERS LAPTOPS AND PCS BASED ON THE AUTHORS SUCCESSFUL SWITCHING POWER OPTIMIZED DESIGN 2ND
EDITION IN CHINESE HIGHLY ILLUSTRATED WITH DESIGN EXAMPLES OF REAL WORLD APPLICATIONS

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

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 EQUIPMENT

POWER SUPPLY TOPOLOGIES SWITCHING SUPPLY DESIGN HINTS TRANSFORMER AND INDUCTOR DESIGN POWER SWITCH CONSIDERATIONS IC VOLTAGE REGULATORS AND POWER SUPPLY ICs MAGNETIC AMPLIFIERS ELECTROMAGNETIC COMPATIBILITY CONVERTER AND INVERTER DESIGN CONSIDERATIONS AND EXAMPLES

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 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

A PRACTICAL GUIDE TO STATE OF THE ART POWER SUPPLY DESIGN COVERING EVERY ASPECT OF THIS NEW TECHNOLOGY

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 PRACTICAL 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 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

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 COMPATIBLY HUMAN SAFETY AND ENERGY EFFICIENCY ISSUES ADDITIONAL CHAPTERS WILL DESCRIBE THE VALUE PROPOSITION FOR DIGITAL CONTROL AND THE PRACTICAL ASPECTS POWER SUPPLY CONSTRUCTION

THIS IS A RIGOROUS CAREFULLY EXPLAINED AND MOTIVATED BEGINNER S BIBLE TO POWER SUPPLY DESIGN BETWEEN DENSE MATHEMATICAL TEXTBOOKS ON POWER ELECTRONICS AND TINY POWER SUPPLY COOKBOOKS THERE EXISTS NO PRACTICAL TUTORIAL ON THE HAZARDS OF CONTEMPORARY POWER SUPPLY DESIGN OUR PRESSMAN BOOK THE 800 LB GORILLA IN THE FIELD IS BOTH MATHEMATICALLY DENSE AND 7 YEARS OLD THIS NEW BOOK DETAILING CUTTING EDGE THERMAL MANAGEMENT TECHNIQUES GROUPING KEY DESIGN EQUATIONS IN A SPECIAL REFERENCE SECTION AND CONTAINING A CONCISE DESIGN FAQ WILL SERVE BOTH AS AN INVALUABLE TUTORIAL AND QUICK REFERENCE

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

THIRD EDITION OF TEXT FOR COURSES IN UNINTERRUPTIBLE POWER SUPPLY SYSTEM DESIGN COVERS TOPICS SUCH AS UNINTERRUPTIBLE POWER SUPPLY CONFIGURATIONS BATTERY BANKS AND OUTPUT INPUT AND AMBIENT SPECIFICATIONS THE AUTHOR HAS 20 YEARS EXPERIENCE IN UPS RESEARCH AND DEVELOPMENT AND ENGINEERING DESIGN

THIS COMPREHENSIVE REFERENCE TEXT EXPLAINS THE DEVELOPMENT AND PRINCIPLES OF OPERATION MODELLING AND ANALYSIS OF SWITCH MODE POWER SUPPLIES SMPS HIGHLIGHTING CONVERSION EFFICIENCY SIZE AND STEADY STATE TRANSIENT REGULATION CHARACTERISTICS COVERING THE PRACTICAL DESIGN TECHNIQUES OF SMPS THIS BOOK REVEALS HOW TO DEVELOP SPECIFIC MODELS OF CIRCUITS AND COMPONENTS FOR SIMULATION AND DESIGN PURPOSES EXPLAINS BOTH THE COMPUTER SIMULATION OF THE SWITCHING BEHAVIOURS OF DC TO DC CONVERTERS AND THE MODELLING OF LINEAR AND NONLINEAR CIRCUIT COMPONENTS DEALS WITH THE MODELLING AND SIMULATION OF THE LOW FREQUENCY BEHAVIOURS OF CONVERTERS INCLUDING CURRENT CONTROLLED CONVERTERS AND CONVERTERS WITH MULTIPLE OUTPUTS AND REGULATORS DESCRIBES COMPUTER AIDED DESIGN CAD TECHNIQUES AS APPLIED TO CONVERTERS AND REGULATORS INTRODUCES THE PRINCIPLES AND DESIGN OF QUASI RESONANT AND RESONANT CONVERTERS PROVIDES DETAILS ON SPICE A CIRCUIT

SIMULATOR PACKAGE USED TO CALCULATE ELECTRICAL CIRCUIT BEHAVIOUR CONTAINING OVER 1000 HELPFUL DRAWINGS EQUATIONS AND TABLES THIS IS A VALUABLE REFERENCE FOR CIRCUIT DESIGN ELECTRICAL AND ELECTRONICS ENGINEERS AND SERVES AS AN EXCELLENT TEXT FOR UPPER LEVEL UNDERGRADUATE AND GRADUATE STUDENTS IN THESE DISCIPLINES

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DIGITIZED, FREE EBOOK SITES WILL PLAY AN INCREASINGLY VITAL ROLE IN LEARNING.

CONCLUSION

IN SUMMARY, FREE EBOOK SITES OFFER AN INCREDIBLE OPPORTUNITY TO ACCESS A WIDE RANGE OF BOOKS WITHOUT THE FINANCIAL BURDEN. THEY ARE INVALUABLE RESOURCES FOR READERS OF ALL AGES AND INTERESTS, PROVIDING EDUCATIONAL MATERIALS, ENTERTAINMENT, AND ACCESSIBILITY FEATURES. SO WHY NOT EXPLORE THESE SITES AND DISCOVER THE WEALTH OF KNOWLEDGE THEY OFFER?

FAQs

ARE FREE EBOOK SITES LEGAL? YES, MOST FREE EBOOK SITES ARE LEGAL. THEY TYPICALLY OFFER

BOOKS THAT ARE IN THE PUBLIC DOMAIN OR HAVE THE RIGHTS TO DISTRIBUTE THEM. HOW DO I KNOW IF AN EBOOK SITE IS SAFE? STICK TO WELL-KNOWN AND REPUTABLE SITES LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND GOOGLE BOOKS. CHECK REVIEWS AND ENSURE THE SITE HAS PROPER SECURITY MEASURES. CAN I DOWNLOAD EBOOKS TO ANY DEVICE? MOST FREE EBOOK SITES OFFER DOWNLOADS IN MULTIPLE FORMATS, MAKING THEM COMPATIBLE WITH VARIOUS DEVICES LIKE E-READERS, TABLETS, AND SMARTPHONES. DO FREE EBOOK SITES OFFER AUDIOBOOKS? MANY FREE EBOOK SITES OFFER AUDIOBOOKS, WHICH ARE PERFECT FOR THOSE WHO PREFER LISTENING TO THEIR BOOKS. HOW CAN I SUPPORT AUTHORS IF I USE FREE EBOOK SITES? YOU CAN SUPPORT AUTHORS BY PURCHASING THEIR BOOKS WHEN

POSSIBLE, LEAVING REVIEWS, AND SHARING THEIR WORK WITH OTHERS.

