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Popular Radio - Kendall Banning 1924

*Advanced Radio Frequency Identification Design and Applications* - Stevan Preradovic 2011-03-22

Radio Frequency Identification (RFID) is a modern wireless data transmission and reception technique for applications including automatic identification, asset tracking and security surveillance. This book focuses on the advances in RFID tag antenna and ASIC design, novel chipless RFID tag design, security protocol enhancements along with some novel applications of RFID.

**The ELFNET Book on Failure Mechanisms, Testing Methods, and Quality Issues of Lead-Free Solder Interconnects** - Günter Grossmann 2011-05-12

The ELFNET Book on Failure Mechanisms, Testing Methods, and Quality Issues of Lead-Free Solder Interconnects is the work of the European network ELFNET which was founded by the European Commission in the 6th Framework Programme. It brings together contributions from the leading European experts in lead-free soldering. The limited validity of testing methods originating from tin-lead solder was a major point of concern in ELFNET members' discussions. As a result, the network's reliability group decided to bring together the material properties of lead-free solders, as well as the basics of material science, and to discuss their influence on the procedures for accelerated testing. This has led to

a matrix of failure mechanisms and their activation and, as a result, to a comprehensive coverage of the scientific background and its applications in reliability testing of lead-free solder joints. The ELFNET Book on Failure Mechanisms, Testing Methods, and Quality Issues of Lead-Free Solder Interconnects is written for scientists, engineers and researchers involved with lead-free electronics.

*PROCEEDINGS OF THE 16TH ANNUAL CONFERENCE OF CHINA ELECTROTECHNICAL SOCIETY* - Xidong Liang

This book gathers outstanding papers presented at the 16th Annual Conference of China Electrotechnical Society, organized by China Electrotechnical Society (CES), held in Beijing, China, from September 24 to 26, 2021. It covers topics such as electrical technology, power systems, electromagnetic emission technology, and electrical equipment. It introduces the innovative solutions that combine ideas from multiple disciplines. The book is very much helpful and useful for the researchers, engineers, practitioners, research students, and interested readers.

**Mechanical Design of Electric Motors** - Wei Tong 2014-04-28

Rapid increases in energy consumption and emphasis on environmental protection have posed challenges for the motor industry, as has the design and manufacture of highly efficient, reliable, cost-effective, energy-saving, quiet, precisely controlled, and long-lasting electric motors. Suitable for motor designers, engineers, and manufacturers, as well

**Thomas Register of American Manufacturers and Thomas Register Catalog File - 2003**

Vols. for 1970-71 includes manufacturers' catalogs.

**Shipboard Electrical Power Systems** - Mukund R. Patel 2016-04-19  
Shipboard Electrical Power Systems addresses new developments in this growing field. Focused on the trend toward electrification to power commercial shipping, naval, and passenger vessels, this book helps new or experienced engineers master cutting-edge methods for power system design, control, protection, and economic use of power. Provides Basic Transferable Skills for Managing Electrical Power on Ships or on Land This groundbreaking book is the first volume of its kind to illustrate optimization of all aspects of shipboard electrical power systems. Applying author Mukund Patel's rare combination of industrial and educational work experiences and insight, it offers solutions to meet the increasing demand for large, fast, efficient, and reconfigurable ships to compete in international markets. For 30 years, Professor Patel was an engineer for companies including General Electric, Lockheed Martin, and Westinghouse Electric, and in the past 15 years he has been an engineering professor at the U.S. Merchant Marine Academy. That varied experience helped him zero in on the specialized multidimensional knowledge an engineer requires—and that is what sets his book apart. Compiles Critical, Hard-to-Find Information on Power System Design, Analysis, and Operation The global shortage of power engineers is not deterring countries from heavily investing in construction of new power plants and grids. Consequent growth in university electrical power programs is satisfying the demand for engineers, but novice graduates require accelerated understanding and practical experience before entering the thriving maritime segment. Ideal for readers with limited electrical experience, wide-ranging coverage includes power system basics, power generation, electrical machines, power distribution, batteries, and marine industry standards. This book is an invaluable tool for engineers working on ships, as well as in ports, industrial power plants, refineries, and other similar environments.

**Popular Mechanics** - 1922-09

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

**Electronics** - 1945

June issues, 1941-44 and Nov. issue, 1945, include a buyers' guide section.

Radio News - 1920

Some issues, 1943-July 1948, include separately paged and numbered section called Radio-electronic engineering edition (called Radionics edition in 1943).

**NASA Tech Briefs** - 1977

**Transformer and Inductor Design Handbook, Third Edition** -

Colonel Wm. T. McLyman 2004-03-31

Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product, Ap, and core geometry, Kg. The book provides complete information on magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the relevant formulas.

*Proceedings* - 1999

**Products and Priorities** - United States. War Production Board.

Division of Budget Administration

**High-Frequency Magnetic Components** - Marian K. Kazimierczuk  
2011-08-24

If you are looking for a complete study of the fundamental concepts in

magnetic theory, read this book. No other textbook covers magnetic components of inductors and transformers for high-frequency applications in detail. This unique text examines design techniques of the major types of inductors and transformers used for a wide variety of high-frequency applications including switching-mode power supplies (SMPS) and resonant circuits. It describes skin effect and proximity effect in detail to provide you with a sound understanding of high-frequency phenomena. As well as this, you will discover thorough coverage on: integrated inductors and the self-capacitance of inductors and transformers, with expressions for self-capacitances in magnetic components; criteria for selecting the core material, as well as core shape and size, and an evaluation of soft ferromagnetic materials used for magnetic cores; winding resistance at high frequencies; expressions for winding and core power losses when non-sinusoidal inductor or transformer current waveforms contain harmonics. Case studies, practical design examples and procedures (using the area product method and the geometry coefficient method) are expertly combined with concept-orientated explanations and student-friendly analysis. Supplied at the end of each chapter are summaries of the key concepts, review questions, and problems, the answers to which are available in a separate solutions manual. Such features make this a fantastic textbook for graduates, senior level undergraduates and professors in the area of power electronics in addition to electrical and computer engineering. This is also an inimitable reference guide for design engineers of power electronics circuits, high-frequency transformers and inductors in areas such as (SMPS) and RF power amplifiers and circuits.

**Smart Structures and Materials...** - 2002

*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 "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 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

**Naval Shore Electronics Criteria** - United States. Naval Electronic Systems Command 1972

**Popular Mechanics Magazine** - 1924

**Current Industrial Report Series** - 1991

Popular Radio and Television - 1926

**Circular of the Bureau of Standards** - 1954

**Gallium Nitride and Silicon Carbide Power Technologies** - K. Shenai 2011

Electromagnetic Compatibility Handbook - Kenneth L. Kaiser 2004-09-29  
As the number of electrical devices in use continues to grow, so do the challenges of ensuring the electromagnetic compatibility (EMC) of products and systems. Fortunately, engineers have at their disposal an array of approximations, models, and rules-of-thumb to help them meet

those challenges. Unfortunately, the number of these tools and guidelines is overwhelming, and worse still is the thought of investigating their origins and confirming their results. The Electromagnetic Compatibility Handbook is an unprecedented compilation of the many approximations, guidelines, models, and rules-of-thumb used in EMC analyses, complete with their sources and their limitations. The book presents these in an efficient question-and-answer format and incorporates an extremely comprehensive set of tables and figures. The author has either derived from basic principles or obtained and verified from their original sources all of the expressions in the tables. Mathcad was used to generate most of the plots and solve many of the equations, and the author includes the Mathcad programs for many of these so users can clearly see the variable assignments, assumptions, and equations. Designed to be of long-lasting value to engineers, researchers, and students, the Electromagnetic Compatibility Handbook is ideal both for quick reference and as a textbook for upper-level and graduate electrical engineering courses.

**Current Industrial Reports** - 1998

**Transformer and Inductor Design Handbook** - Colonel Wm. T. McLyman 2017-12-19

With its practical approach to design, Transformer and Inductor Design Handbook, Fourth Edition distinguishes itself from other books by presenting information and guidance that is shaped primarily by the user's needs and point of view. Expanded and revised to address recent industry developments, the fourth edition of this classic reference is re-organized and improved, again serving as a constant aid for anyone seeking to apply the state of the art in transformer and inductor design. Carefully considering key factors such as overall system weight, power conversion efficiency, and cost, the author introduces his own new equation for the power handling ability of the core, intended to give engineers faster and tighter design control. The book begins by providing the basic fundamentals of magnetics, followed by an explanation of design using the Kg or Ap techniques. It also covers

subjects such as laminations, tape cores, powder cores and ferrites, and iron alloys. In addition, new topics include: Autotransformer design Common-mode inductor design Series saturable reactor design Self-saturating magnetic amplifier Designing inductors for a given resistance With the goal of making inductors that are lighter and smaller but still meet requirements, this book helps users avoid many antiquated rules of thumb, to achieve a better, more economical design. Presenting transformer design examples with step-by-step directions and numerous tables and graphics for comparison, it remains a trusted guide for the engineers, technicians, and other professionals who design and evaluate transformers and inductors. It also serves as an ideal primer for students, illustrating the field for them from the ground up.

**Radio Broadcast** - 1925

**Malaysia ELECTRICAL, ELECTRONIC PARTS, COMPONENTS EXPORT-IMPORT & BUSINESS HANDBOOK - Strategic**

**Information and Contacts** - IBP, Inc. 2018-02-23

2011 Updated Reprint. Updated Annually. Malaysia ELECTRICAL & ELECTRONIC PARTS AND COMPONENTS EXPORT-IMPORT & BUSINESS HANDBOOK

**Inductive Links for Wireless Power Transfer** - Pablo Pérez-Nicoli 2021-07-10

This book presents a system-level analysis of inductive wireless power transfer (WPT) links. The basic requirements, design parameters, and utility of key building blocks used in inductive WPT links are presented, followed by detailed theoretical analysis, design, and optimization procedure, while considering practical aspects for various application domains. Readers are provided with fundamental, yet easy to follow guidelines to help them design high-efficiency inductive links, based on a set of application-specific target specifications. The authors discuss a wide variety of recently proposed approaches to achieve the maximum efficiency point, such as the use of additional resonant coils, matching networks, modulation of the load quality factor (Q-modulation), and adjustable DC-DC converters. Additionally, the attainability of the

maximum efficiency point together with output voltage regulation is addressed in a closed-loop power control mechanism. Numerous examples, including MATLAB/Octave calculation scripts and LTspice simulation files, are presented throughout the book. This enables readers to check their own results and test variations, facilitating a thorough understanding of the concepts discussed. The book concludes with real examples demonstrating the practical application of topics discussed. Covers both introductory and advanced levels of theory and practice, providing readers with required knowledge and tools to carry on from simple to advanced wireless power transfer concepts and system designs; Provides theoretical foundation throughout the book to address different design aspects; Presents numerous examples throughout the book to complement the analysis and designs; Includes supplementary material (numerical and circuit simulation files) that provide a "hands-on" experience for the reader; Uses real examples to demonstrate the practical application of topics discussed.

**Official Gazette of the United States Patent Office** - United States. Patent Office 1949

Solid-State Power Conversion Handbook - Ralph E. Tarter 1993-05-06 Applications oriented, it contains all the pertinent and comprehensive information necessary to meet the growing demands placed upon solid-state power conversion equipment. These demands include improved reliability, increased efficiency, higher packing density, improved performance plus meeting safety and EMC regulations. Features a thorough assessment of basic electrical and magnetic aspects of power conversion as well as thermal, protection, radiation and reliability considerations. Stresses semiconductor and magnetic components and gives an analysis of diverse topologies.

**Popular Mechanics** - 1922-08

Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate

guide to our high-tech lifestyle.

**Mechanical Design and Manufacturing of Electric Motors** - Wei Tong 2022-05-20

This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in-depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption, and emphasis on environmental protection, alongside new technology in 3D printing, robots, nanotechnology, and digital techniques, and the challenges these pose to the motor industry. From motor classification and design of motor components to model setup and material and bearing selections, this comprehensive text covers the fundamentals of practical design and design-related issues, modeling and simulation, engineering analysis, manufacturing processes, testing procedures, and performance characteristics of electric motors today. This Second Edition adds three brand new chapters on motor breaks, motor sensors, and power transmission and gearing systems. Using a practical approach, with a focus on innovative design and applications, the book contains a thorough discussion of major components and subsystems, such as rotors, shafts, stators, and frames, alongside various cooling techniques, including natural and forced air, direct- and indirect-liquid, phase change, and other newly-emerged innovative cooling methods. It also analyzes the calculation of motor power losses, motor vibration, and acoustic noise issues, and presents engineering analysis methods and case-study results. While suitable for motor engineers, designers, manufacturers, and end users, the book will also be of interest to maintenance personnel, undergraduate and graduate students, and academic researchers.

*Subminiaturization Techniques for Low-frequency Receivers* - Gustave Shapiro 1954

*Introduction to Electrical Power and Power Electronics* - Mukund R. Patel 2012-12-10

Most traditional power systems textbooks focus on high-voltage transmission. However, the majority of power engineers work in urban

factories, buildings, or industries where power comes from utility companies or is self-generated. Introduction to Electrical Power and Power Electronics is the first book of its kind to cover the entire scope of electrical power and power electronics systems in one volume—with a focus on topics that are directly relevant in power engineers' daily work. Learn How Electrical Power Is Generated, Distributed, and Utilized Composed of 17 chapters, the book is organized into two parts. The first part introduces aspects of electrical power that most power engineers are involved in during their careers, including the distribution of power to load equipment such as motors via step-down transformers, cables, circuit breakers, relays, and fuses. For engineers working with standalone power plants, it also tackles generators. The book discusses how to design and operate systems for economic use of power and covers the use of batteries in greater depth than typically found in traditional power system texts. Understand How Power Electronics Work in Modern Systems The second part delves into power electronics switches, as well as the DC-DC converters, AC-DC-AC converters, and frequency converters used in variable-frequency motor drives. It also discusses quality-of-power issues in modern power systems with many large power electronics loads. A chapter on power converter cooling presents important interdisciplinary design topics. Draw on the Author's Extensive Industry and Teaching Experience This timely book draws on the author's 30 years of work experience at General Electric, Lockheed Martin, and Westinghouse Electric and 15 years of teaching electrical power at the U.S. Merchant Marine Academy. Designed for a one-semester or two-quarter course in electrical power and power

electronics, it is also ideal for a refresher course or as a one-stop reference for industry professionals.

*Federal Register* - 1946-05

Advances in Bioengineering - Pier Andrea Serra 2015-07-08

The technological approach and the high level of innovation make bioengineering extremely dynamic and this forces researchers to continuous updating. It involves the publication of the results of the latest scientific research. This book covers a wide range of aspects and issues related to advances in bioengineering research with a particular focus on innovative technologies and applications. The book consists of 13 scientific contributions divided in four sections: Materials Science; Biosensors. Electronics and Telemetry; Light Therapy; Computing and Analysis Techniques.

**High Reliability Magnetic Devices** - Colonel Wm. T. McLyman 2002-07-17

Showcasing the most authoritative information, this book features step-by-step instructions on ordering raw materials, choosing construction techniques, conducting in-process inspection, performing end-item testing, and providing quality assurance recommendations to improve reliability and minimize cost. Providing 400 easy-to-follow illustrations, **Work Materials ...** - 1936

**Circular - National Bureau of Standards** - United States. National Bureau of Standards 1953