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The Complex Connection between Cannabis and Schizophrenia - Michael T. Compton 2017-08-25
The Complex Connections between Cannabis and Schizophrenia provides an in-depth overview of the current state of research into the role that cannabis plays in schizophrenia, covering both the pathophysiological and the pharmacological implications. It addresses the epidemiology of cannabis use and the risks associated with its use, the biological aspects of the drug, its effects on the brain and the pharmacological possibilities of using cannabidiol to treat schizophrenia. It is the only book on the market devoted exclusively to examining the links between this very commonly used (and misused) drug and a specific set of devastating psychiatric illnesses, providing a comprehensive guide to our current understandings of this relationship. Marijuana is the most commonly used illicit drug globally, and is becoming increasingly decriminalized and even legalized worldwide. Among the numerous mental-health concerns related to the drug, there is mounting evidence of an intricate link between cannabis use and schizophrenia and related psychotic disorders. At the same time, there is promising evidence to suggest that cannabidiol, one of the many compounds found in cannabis that activates the brain's cannabinoid receptors, could prove to be an effective antipsychotic to treat schizophrenia. Synthesizes existing knowledge about the confusing, but crucial, relationship between cannabis use and schizophrenia symptoms Provides a comprehensive overview of the neurobiological mechanisms of cannabis use and its effects on the brain, including an exploration of the endocannabinoid system Examines the promising evidence suggesting cannabidiol as an effective antipsychotic treatment for schizophrenia Aids readers studying the neurobiological underpinning of cannabis addiction and psychosis in determining directions for their own future research

Pharmaceutical Nanotechnology - Volkmar Weissig 2020-08-14

This volume details protocols on formulation, surface modification, characterization, and application of a variety of pharmaceutical nanocarriers such as micelles, nanoparticles, dendrimers, carbon dots, polymersomes, and others. Chapters are targeted toward investigators working in academic and industrial laboratories conducting research in the broad field of pharmaceutical sciences, with an emphasis on drug delivery. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Pharmaceutical Nanotechnology: Basic Protocols* aims to be a source of inspiration to all investigators who are interested in the potential of the merger of nanotechnology with pharmaceutical sciences.

Fundamentals of Power Electronics - S. Rama Reddy 2000

Designed for polytechnic and undergraduate students of electrical/electronics, this book offers short questions and answers at the end of chapters. It is also suitable for those preparing for professional courses like AMIE and AMITE.

Materials Chemistry - Bradley D. Fahlman 2018-08-28

The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association (TAA). *Materials Chemistry* addresses inorganic-, organic-, and nano-based materials from a structure vs. property treatment, providing a suitable breadth and depth coverage of the rapidly evolving materials field — in a concise format. The 3rd edition offers significant updates throughout, with expanded sections on sustainability, energy storage, metal-organic frameworks, solid electrolytes, solvothermal/microwave syntheses, integrated circuits, and nanotoxicity. Most appropriate for Junior/Senior undergraduate students, as well as first-year graduate students in chemistry, physics, or engineering fields, *Materials Chemistry* may also serve as a valuable reference to industrial researchers. Each chapter concludes with a section that describes important materials applications, and an updated list of thought-provoking questions.

Fixed Capacitors for Use in Electronic Equipment - British Standards Institution 2021

Bowser the Hound - Thornton Waldo Burgess 1920

When Bowser the Hound gets lost in the Green Forest, Blacky the Crow and other animals decide to help him.

Aptamers for Medical Applications - Yiyang Dong 2021

This book outlines comprehensively the main medical uses of aptamers, from diagnosis to therapeutics in fourteen chapters. Pioneering topics covered include aptamer pharmaceuticals, aptamers for malign tumors, aptamers for personalized therapeutics and aptamers for point-of-care testing. The book offers an essential guide for medical scientists interested in developing aptamer-based schemes for better theranostics. It is therefore of interest for not only academic researchers, but also practitioners and medical researchers in various fields of medical science, medical research and bio-analytical chemistry.

Computer Literature Bibliography - United States. National Bureau of Standards 1965

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 Equipment

Phonetics, Theory and Application - William R. Tiffany 1977

Ferrites for Inductors and Transformers - Eric Charles Snelling 1983

Transmission Line Transformers - Jerry Sevick 2001

This classic text on transmission line transformers for high frequencies includes new chapters on efficiency, power combiners, mixer transformers, and equal-delay transformers. Sevick explains the basic theory that results in transmission line transformers with higher performance than conventional magnetic flux-coupled transformers.

Ballistic missile defense glossary -

Handbook of Transformer Design and Applications - William M. Flanagan 1993-01-22

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Marine Archaeology in India - Shikaripur Ranganatha Rao 2001

A Detailed Account Of The Exploration Of India`S Underwater Cultural Heritage During The Last About 15 Years, Highlighting The Problems Faced The Techniques Followed And The Results Achieved.

Electrical Machines - Turan Gönen 1998-01-01

NASA Tech Briefs - 1990

Plant Nanotechnology - Chittaranjan Kole 2016-10-13

This book highlights the implications of nanotechnology in plant sciences, particularly its potential to improve food and agricultural systems, through innovative, eco-friendly approaches, and as a result to increase plant productivity. Topics include various aspects of nanomaterials: biophysical and biochemical properties; methods of treatment, detection and quantification; methods of quantifying the uptake of nanomaterials and their translocation and accumulation in plants. In addition, the effects on plant growth and development, the role of nanoparticles in changes in gene and protein expression, and delivery of genetic materials for genetic improvement are discussed. It also explores how nanotechnology can improve plant protection and plant nutrition, and addresses concerns about using nanoparticles and their compliances. This book provides a comprehensive overview of the application potential of nanoparticles in plant science and serves as a valuable resource for students, teachers, researchers and professionals working on nanotechnology.

Applied Magnetism - R. Gerber 2013-03-09

This book is based on the contributions to a course, entitled Applied Magnetism, which was the 25th Course of the International School of Materials Science and Technology. The Course was held as a NATO Advanced Study Institute at the Ettore Majorana Centre in Erice, Sicily, Italy between the 1st and 12th July 1992, and attracted almost 70 participants from 15 different countries. The book deals with the theory, experiments and applications of the main topical areas of applied magnetism. These selected areas include the physics of magnetic recording,

magnetic and magneto-optic recording devices, systems and media, magnetic fine particles, magnetic separation, domains and domain walls in soft magnetic materials, permanent magnets, magnetoresistance, thin film magneto-optics, and finally, microwave, optical and computational magnetics. The material is organised into 10 self-contained chapters which together provide a comprehensive coverage of the subject of applied magnetism. The aim is to emphasise the connection between the fundamental theoretical concepts, key experiments and the important technological developments which have been achieved in this field up to the present time. Moreover, when and where possible, pointers to future trends are indicated which hopefully, together with the background material, will promote further advancement of research. The organizing committee would like to acknowledge the sponsorship of the NATO Scientific Affairs Division, the National Science Foundation of the USA, the Science and Engineering Research Council of the UK, the Italian Ministry of Education, the Italian Ministry of University and Scientific Research and the Sicilian Regional Government.

Transformer and Inductor Design Handbook - Colonel William T. McLyman 2011

"Preface I have had many requests to update my book Transformer and Inductor Design Handbook, because of the way power electronics has changed in the past few years. I have been requested to add and expand on the present Chapters. There are now twenty-six Chapters. The new Chapters are autotransformer design, common-mode inductor design, series saturable reactor design, self-saturating magnetic amplifier and designing inductors for a given resistance, all with step-by-step design examples. This book offers a practical approach with design examples for design engineers and system engineers in the electronics industry, as well as the aerospace industry. While there are other books available on electronic transformers, none of them seem to have been written with the user's viewpoint in mind. The material in this book is organized so that the design engineer, student engineer or technician, starting at the beginning of the book and continuing through the end, will gain a comprehensive knowledge of the state of the art in transformer and inductor design. The more experienced engineers and system engineers will find this book a useful tool when designing or evaluating transformers and inductors. Transformers are to be found in virtually all electronic circuits. This book can easily be used to design lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. It is, therefore, a design manual"--

Soft Ferrites - Eric Charles Snelling 1988

Expanded edition of the 1969 work on the theory, data, and procedures required for the design of ferrite cored devices. Covers the technically important properties of magnetically soft ferrites at frequencies up to 100 MHz, and the application of those ferrites to inductors, transformers and related devices. A comprehensive list of references and bibliography follow each chapter. Annotation copyrighted by Book News, Inc., Portland, OR

Twelve Years a Slave - Solomon Northup 2021-01-01

"Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Glycan-Based Cellular Communication - Peng George Wang 2020

Computational Welding Mechanics - John A. Goldak 2006-07-04

Computational Welding Mechanics (CWM) provides readers with a complete introduction to the principles and applications of computational welding including coverage of the methods engineers and designers are using in computational welding mechanics to predict distortion and residual stress in welded structures, thereby creating safer, more reliable and lower cost structures. Drawing upon years of practical experience and the study of computational welding mechanics the authors instruct the reader how to: - understand and interpret computer

simulation and virtual welding techniques including an in depth analysis of heat flow during welding, microstructure evolution and distortion analysis and fracture of welded structures, - relate CWM to the processes of design, build, inspect, regulate, operate and maintain welded structures, - apply computational welding mechanics to industries such as ship building, natural gas and automobile manufacturing. Ideally suited for practicing engineers and engineering students, Computational Welding Mechanics is a must-have book for understanding welded structures and recent technological advances in welding, and it provides a unified summary of recent research results contributed by other researchers.

Eco-friendly Polymer Nanocomposites - Vijay Kumar Thakur 2015-07-20

This book contains precisely referenced chapters, emphasizing environment-friendly polymer nanocomposites with basic fundamentals, practicality and alternatives to traditional nanocomposites through detailed reviews of different environmental friendly materials procured from different resources, their synthesis and applications using alternative green approaches. The book aims at explaining basics of eco-friendly polymer nanocomposites from different natural resources and their chemistry along with practical applications which present a future direction in the biomedical, pharmaceutical and automotive industry. The book attempts to present emerging economic and environmentally friendly polymer nanocomposites that are free from side effects studied in the traditional nanocomposites. This book is the outcome of contributions by many experts in the field from different disciplines, with various backgrounds and expertises. This book will appeal to researchers as well as students from different disciplines. The content includes industrial applications and will fill the gap between the research works in laboratory to practical applications in related industries.

80 Years of Research at the Philips Natuurkundig Laboratorium (1914-1994) - Marc de Vries 2005

Since World War I, the Natuurkundig Laboratorium has been a crucial center of industrial research for Philips, one of the world's largest electronics companies. In this study, Marc J. de Vries demonstrates how the history of the laboratory can help us understand important changes in the production and uses of technology in the twentieth century. Breaking their study into three periods, each characterized by different research goals and approaches, the authors augment this general history with detailed case studies. The result will be of value to anyone studying the history and philosophy of technology.

Computer applications in electrical engineering 2015 - Ryszard Nawrowski 2015

Magnetic Core Selection for Transformers and Inductors - Colonel Wm. T. McLyman 2018-10-03
Written as a companion to Transformer and Inductor Design Handbook (second ed), this work compiles the specifications of over 12,000 industrially available cores and brings them in line with standard units of measurement, simplifying the selection of core configurations for the design of magnetic components.

Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar - Richard C. Dorf 2018-10-03

In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books carefully focused on a specialized area or field of study. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar represents a concise yet definitive collection of key concepts, models, and equations in these areas, thoughtfully gathered for convenient access. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, electromagnetics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of microlithography and power

electronics. Articles include defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar features the latest developments, the broadest scope of coverage, and new material in emerging areas.

Microstructure and Properties of Ductile Iron and Compacted Graphite Iron Castings - Mariusz Holtzer 2015-03-27

This book provides an overview of the surface effects at the interface boundary of metal/sand moulds, and their influence on the surface quality, microstructure and mechanical and anticorrosive properties of high-quality cast iron. It explores utilitarian aspects of the production of high-quality cast iron castings, including thin-walled castings of high-quality cast iron alloys, and examines problems related to the determination of moulding sands and reclaim quality, and their influence on castings. Presenting new material, this book takes into account the influence of metal quality, pouring temperature, solidification time, the quality of moulding sand with the reclaim application, as well the binders of moulding sands, on the formation of the degenerated graphite near surface layers. It also employs the latest research methods, such as a wavelength-dispersive spectrometer (WDS) analysis and thermodynamic calculations, which were carried out on the reactions occurring in the study area. Providing a valuable resource to academics and researchers interested in materials science, metal casting and metallurgy, this book is also intended for metal industry professionals.

National Construction Safety Team Act - United States. Congress. House. Committee on Rules 2002

Drawing Requirements Manual - Jerome H. Lieblich 1992

Principles of Communication Engineering - John M. Wozencraft 1990

This book provides a cohesive introduction to much of the vast body of knowledge central to the problems of communication engineering.

Modern Ferrite Technology - Alex Goldman 2006-09-28

Revision of a classic reference on ferrite technology Includes fundamentals as well as applications Covers new areas such as nanoferrites, new high frequency power supply materials, magnetoresistive ferrites for magnetic recording

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 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

Magnetic Components for Power Electronics - Alex Goldman 2012-12-06

Magnetic Components for Power Electronics concerns the important considerations necessary in the choice of the optimum magnetic component for power electronic applications. These include the topology of the converter circuit, the core material, shape, size and others such as cost and potential component suppliers. These are all important for the design engineer due to the emergence of new materials, changes in supplier management and the examples of several component choices. Suppliers using this volume will also understand the needs of designers. Highlights include: Emphasis on recently introduced new ferrite materials, such as those operating at megahertz frequencies and under higher DC drive conditions; Discussion of amorphous and nanocrystalline metal materials; New technologies such as resonance converters, power factors correction (PFC) and soft switching; Catalog information from over 40 magnetic component suppliers; Examples of methods of component choice for ferrites, amorphous nanocrystalline materials; Information on suppliers management changes such as those occurring at Siemens, Philips, Thomson and Allied-Signal; Attention to the increasingly important concerns about EMI. This book should be especially helpful for power electronic circuit designers, technical executives, and material science engineers involved with power electronic components.

Products and Services Catalogue - 2001

Fundamentals of Power Electronics - Robert W. Erickson 2007-05-08

Fundamentals of Power Electronics, Second Edition, is an up-to-date and authoritative text and reference book on power electronics. This new edition retains the original objective and philosophy of focusing on the fundamental principles, models, and technical requirements needed for designing practical power electronic systems while adding a wealth of new material. Improved features of this new edition include: A new chapter on input filters, showing how to design single and multiple section filters; Major revisions of material on averaged switch modeling, low-harmonic rectifiers, and the chapter on AC modeling of the discontinuous conduction mode; New material on soft switching, active-clamp snubbers, zero-voltage transition full-bridge converter, and auxiliary resonant commutated pole. Also, new sections on design of multiple-winding magnetic and resonant inverter design; Additional appendices on Computer Simulation of Converters using averaged switch modeling, and Middlebrook's Extra Element Theorem, including four tutorial examples; and Expanded treatment of current programmed control with complete results for basic converters, and much more. This edition includes many new examples, illustrations, and exercises to guide students and professionals through the intricacies of power electronics design. Fundamentals of Power Electronics, Second Edition, is

intended for use in introductory power electronics courses and related fields for both senior undergraduates and first-year graduate students interested in converter circuits and electronics, control systems, and magnetic and power systems. It will also be an invaluable reference for professionals working in power electronics, power conversion, and analogue and digital electronics.

Switchmode Power Supply Handbook - Keith Billings 1999

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.

Application of Smart Grid Technologies - Lisa Lamont 2018-05-29

Application of Smart Grid Technologies: Case Studies in Saving Electricity in Different Parts of the World provides a wide international view of smart grid technologies and their implementation in all regions of the globe. A brief overview of smart grid concepts and state-of-the-art technologies is followed by sections that highlight smart grid experiences in Asia, Africa, North America, South America, Europe and Australasia. Chapters address select countries or sub-regions, presenting their local technological needs and specificities, status of smart grid implementation, technologies of choice, impacts on their electricity markets, and future trends. Similar chapter makes it easier to compare these experiences. In a time when the smart grid is becoming a worldwide reality, this book is ideal for professionals in power transmission and distribution companies, as well as students and researchers in the same field. It is also useful for those involved in energy management and policymaking. Presents the status and challenges of smart grid technologies and their implementation around the globe Includes global case studies written by local experts and organized for easy comparison Provides a brief overview of smart grid concepts and currently available technologies