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KEY=2246 - BALL NIXON

PERMANENT MAGNET SYNCHRONOUS MACHINES

MDPI Interest in permanent magnet synchronous machines (PMSMs) is continuously increasing worldwide, especially with the increased use of renewable energy and the electrification of transports. This book contains the successful submissions of fifteen papers to a Special Issue of Energies on the subject area of "Permanent Magnet Synchronous Machines". The focus is on permanent magnet synchronous machines and the electrical systems they are connected to. The presented work represents a wide range of areas. Studies of control systems, both for permanent magnet synchronous machines and for brushless DC motors, are presented and experimentally verified. Design studies of generators for wind power, wave power and hydro power are presented. Finite element method simulations and analytical design methods are used. The presented studies represent several of the different research fields on permanent magnet machines and electric drives.

CARDIAC CELL BIOLOGY

Springer Science & Business Media Cardiac cell biology has come of age. Recognition of activated or modified signaling molecules by specific antibodies, new selective inhibitors, and fluorescent fusion tags are but a few of the tools used to dissect signaling pathways and cross-talk mechanisms that may eventually allow rational drug design. Understanding the regulation of cardiac hypertrophy in all its complexity remains a fundamental goal of cardiac research. Since the advancement of adenovirally mediated gene transfer, transfection efficiency is no longer a limiting factor in the study of cardiomyocytes. A limiting factor in considering cell transplantation as

a strategy to repair the damaged heart is cell availability at the right time. Cardiac gap junctions, intercellular communication channels that allow electrical and metabolic coupling and play an important role in arrhythmogenesis are now understood to be exquisite sensors of cardiac change. The reports in this volume include elegant studies that made use of cutting edge technological advances and many specialized reagents to address these issues.

ARRHYTHMOGENIC RV CARDIOMYOPATHY/DYSPLASIA

RECENT ADVANCES

Springer Science & Business Media This book covers all aspects (biological, pathological, genetic, clinical and therapeutical) of arrhythmogenic right ventricular cardiomyopathy/dysplasia, a recent cardiomyopathy which represents a very high risk of sudden death in the young and in the athletes. This monograph gathers the results of a five-year research program on ARVC/D which allowed the discovery of 5 disease-causing genes, thus opening new avenues for the early identification of affected patients.

ADVANCES IN SMART GRID TECHNOLOGY

SELECT PROCEEDINGS OF PECCON 2019—VOLUME I

Springer Nature This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

MICROANALYSIS OF SOLIDS

Springer Science & Business Media This book systematically describes the most widely used techniques for the microanalysis of the physical, structural, and compositional properties of solids. Covering electron beams, ion beams, photon beams, and acoustic waves, it will provide physicists, materials scientists, electrical engineers, chemists, and their students with a comprehensive reference source.

PET AND THE IEEE 488 BUS (GPIB)

COMMERCE BUSINESS DAILY

ELECTROMAGNETIC FIELDS DIVISION

MOTOR WAVEFORM REFERENCE MANUAL

ENGINE MANAGEMENT, IGNITION, AND EMISSIONS SYSTEM DIAGNOSIS

DIFFUSION AND ELECTROPHORETIC NMR

Walter de Gruyter GmbH & Co KG Diffusion and Elettrophoretic NMR experiments resolve chemical compounds based on their molecular motion. This publication introduces the basics of these methods and explains how they can be used to measure the size of molecules and aggregates, to determine degree of polymerization and to solve other chemical problems. Supplied with many case studies, the book is a must-have for students and researchers who work with practical NMR measurements.

NONINVASIVE METHODS FOR THE QUANTIFICATION OF SKIN FUNCTIONS

Z80 REFERENCE GUIDE

AFTER LATIN AMERICAN STUDIES

A GUIDE TO GRADUATE STUDY AND EMPLOYMENT FOR LATIN AMERICANISTS

ANALOG CIRCUITS COOKBOOK

Elsevier Analog Circuits Cookbook is a collection of tried and tested recipes form the masterchef of analog and RF design. Based on articles from Electronics World, this book provides a diet of high quality design techniques and applications, and proven circuit designs, all concerned with the analog, RF and interface fields of electronics. Ian Hickman uses illustrations and examples rather than tough mathematical theory to present a wealth of ideas and tips based on his own workbench experience. This second edition includes 10 of Hickman's latest articles, alongside 20 of his most popular classics. The new material includes articles on power supplies, filters using

negative resistance, phase noise and video surveillance systems. Essential reading for all circuit design professionals and advanced hobbyists Contains 10 of Ian Hickman's latest articles, alongside 20 of his most popular classics

A CASEBOOK ON THE ENFORCEMENT OF INTELLECTUAL PROPERTY RIGHTS

4TH EDITION

WIPO With this publication, WIPO and the author aim at making available for judges, lawyers and law enforcement officials a valuable tool for the handling of intellectual property cases. To that effect, the case book uses carefully selected court decisions drawn from various countries with either civil or common law traditions. The extracts from the decisions and accompanying comments illustrate the different areas of intellectual property law, with an emphasis on matters that typically arise in connection with the enforcement of intellectual property rights in civil as well as criminal proceedings.

TUBE TESTER I-177

THE ENFORCEMENT OF INTELLECTUAL PROPERTY RIGHTS: A CASE BOOK

3RD EDITION

WIPO With this publication, WIPO and the author aim at making available for judges, lawyers and law enforcement officials a valuable tool for the handling of intellectual property cases. To that effect, the case book uses carefully selected court decisions drawn from various countries with either civil or common law traditions. The extracts from the decisions and accompanying comments illustrate the different areas of intellectual property law, with an emphasis on matters that typically arise in connection with the enforcement of intellectual property rights in civil as well as criminal proceedings.

ELECTRIC CONTACTS

THEORY AND APPLICATION

Springer Science & Business Media This book is a completely revised and rewritten edition of "Electric Contacts Handbook" published in 1958. A large number of new investigations are considered, and many of the basic theories are revised in detail and even in general. The body of information had to be limited as it was not advisable to increase the volume of the book. In particular, no attempt

was made to cover all of the practical applications. They appear as examples following concentrated explanations of basic phenomena. As in several branches of technology, the solutions of problems arising in the field of electric contacts involve insight into various disciplines of physics. It is felt that reviews of some of those topics, especially adapted to electric contact phenomena, are welcome to many readers. For example, chapters have been devoted to the structure of carbon, the band theory of electric conduction in solids, certain problems in statistics, and the theory of the electric arc. As regards arc problems, new ideas have been introduced. In order to make the main text less cumbersome, such reviews are presented as appendices. Throughout this edition, the mksa-unit system is used in accord with the latest recommendation for standardization of units in scientific and technical writings. The chapter "History of Early Investigations on Contacts" forming Part IV in the preceding edition of 1958 has not been repeated in this book.

OPERATOR'S MANUAL

RADIO SET AN/GRC-19

THE HACKER'S DICTIONARY

Createspace Independent Publishing Platform This document is a collection of slang terms used by various subcultures of computer hackers. Though some technical material is included for background and flavor, it is not a technical dictionary; what we describe here is the language hackers use among themselves for fun, social communication, and technical debate.

NANOPHOTONICS WITH SURFACE PLASMONS

Elsevier Current developments in optical technologies are being directed toward nanoscale devices with subwavelength dimensions, in which photons are manipulated on the nanoscale. Although light is clearly the fastest means to send information to and from the nanoscale, there is a fundamental incompatibility between light at the microscale and devices and processes at the nanoscale. Nanostructured metals which support surface plasmon modes can concentrate electromagnetic (EM) fields to a small fraction of a wavelength while enhancing local field strengths by several orders of magnitude. For this reason, plasmonic nanostructures can serve as optical couplers across the nano-micro interface: metal-dielectric and metal-semiconductor nanostructures can act as optical nanoantennae and enhance light-matter coupling in nanoscale devices. This book describes how one can fully integrate plasmonic nanostructures into dielectric, semiconductor, and molecular photonic devices, for guiding photons across the nano-micro interface and for detecting molecules with unsurpassed sensitivity. ·Nanophotonics and Nanoplasmonics ·Metamaterials and negative-index

materials · Plasmon-enhanced sensing and spectroscopy · Imaging and sensing on the nanoscale · Metal Optics

OPERATOR'S MANUAL

RADIO RECEIVER R-390A/URR.

BROADBAND PLANAR ANTENNAS

DESIGN AND APPLICATIONS

John Wiley & Sons The increasing demand for wireless communications has revolutionised the lifestyle of today's society and one of the key components of wireless technology is antenna design. Broadband planar antennas are the newest generation of antennas boasting the attractive features required, such as broad operating bandwidth, low profile, light weight, low cost and ease of integration into arrays or Radio Frequency (RF) circuits, to make them ideal components of modern communications systems. Research into small and broadband antennas has been spurred by the rapid development of portable wireless communication devices such as cell phones, laptops and personal digital assistants. This all-encompassing volume, Broadband Planar Antennas: Design and Applications, systematically describes the techniques for all planar antennas from microstrip patch antennas, suspended plate antennas and planar inverted-L/F antennas to planar dipole antennas. Also discussed are some of the most recent outcomes such as broadband antenna issues in promising ultra-wideband applications. Clearly describes the fundamentals of planar antennas and categorises them according to their radiation characteristics Introduces the advanced progress in broadband planar antennas for modern wireless communications Includes a wealth of case studies, design guidelines, figures and tables This text is essential reading for antenna, RF and microwave engineers and manufacturers within the telecommunications industry. Its highly accessible approach will also appeal to researchers, postgraduate students and academic lecturers.

MODERN HIGH-END VALVE AMPLIFIERS

BASED ON TOROIDAL OUTPUT TRANSFORMERS

Elektor International Media Explains the whys and wherefores of toroidal output transformers at various technical levels, starting with elementary concepts and culminating in complete mathematical descriptions. In all of this, the interactions of the output valves, transformer and loudspeaker form the central theme. Next come the practical aspects. The schematic diagram of a valve amplifier

often appears to be very simple at first glance, but anyone who has built a modern valve amplifier knows that a lot of critical details are hidden behind the apparent simplicity. These are discussed extensively, in connection with designs for amplifiers without output powers ranging from 10 to 100 watts. Finally, the author gives some attention to a number of special valve amplifiers, and to the theory and practice of negative feedback.

HANDBOOK OF NOISE MEASUREMENT

COMPUTER SECURITY HANDBOOK

Wiley

PROCEEDINGS OF THE INTERNATIONAL WORKSHOP ON MEDICAL ULTRASOUND TOMOGRAPHY: 14.-15. OCT. 2019, WAYNE STATE UNIVERSITY, DETROIT, MICHIGAN, USA

KIT Scientific Publishing Ultrasound Tomography is an emerging technology for medical imaging that is quickly approaching its clinical utility. Research groups around the globe are engaged in research spanning from theory to practical applications. The International Workshop on Medical Ultrasound Tomography 2019 brought together scientists to exchange their knowledge and discuss new ideas and results in order to boost the research in Ultrasound Tomography.

ELECTRON TUBES, CROSS INDEX AND TYPE IDENTIFICATION

INTRODUCTION TO ASTRONOMICAL PHOTOMETRY

Springer Science & Business Media The material given in this 'Introduction to astronomical photometry' is the subject matter of a lecture at the University of Geneva. It is, therefore, intended for those students, physicists or mathematicians, who have completed their bachelor's degree or diploma, and are intending to work for their Ph.D. in astronomy. We assume then the elementary ideas of astrophysics, magnitude, colour index, spectral classes, luminosity classes, gradient, atmospheric extinction are already known. The student may find it useful to re-read the work of Schatzman [1], Dufay [2] and Aller [254] before embarking upon the study of this 'Introduction to astronomical photometry'. It is not our aim in this book to deal with every aspect of stellar photometry. On the contrary, we shall restrict ourselves to looking at subjects of which knowledge seems to us essential for someone who has to use photometric quantities in his astronomical research. We are, therefore, keeping the interests of the photometric measurements user particularly in mind. We shall only discuss very superficially the technical problems and reduction methods for atmospheric

extinction. These problems are dealt with very clearly in *Astronomical Techniques* [3]; the first by A. Lallemand, H. L.

CATALOG NO. 23

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BUILD YOUR OWN ELECTRONIC TEST INSTRUMENTS

In the testing and inspection of electrical and electronic equipment, a variety of electronic test instruments is required. Although many of these are commercially available, for many reasons (cost, challenge) many researchers, enthusiasts, and experimenters like to build such instruments themselves.

HOLOGRAPHIC RECORDING MATERIALS

Springer Science & Business Media With contributions by numerous experts

GLOBAL LESSONS FROM THE AIDS PANDEMIC

ECONOMIC, FINANCIAL, LEGAL AND POLITICAL IMPLICATIONS

Springer Science & Business Media We began to research for this book in 2000, with the idea that we might contribute to the search for solutions to the global HIV/AIDS pandemic by combining perspectives from different disciplines. Much has happened in the intervening years. First, the severity of the HIV/AIDS pandemic in sub-Saharan Africa – and the threat it posed for many other regions of the world – led to a movement among several countries to correct the imbalance between producers and users of pharmaceutical products. This effort produced a clarification of the right of governments to produce generic medicine under compulsory licenses and an amendment of the World Trade Organization’s TRIPS Agreement to allow exports of generic medicines from one WTO Member to

another. In 2007, the amended rules were put into practice, with Canada authorizing the export of generic antiretroviral drugs to Rwanda. However, at the same time, global patent laws have been undermined due to regulatory capture, most notably in free trade agreements and through political pressure on countries like Thailand to not to exercise their right to issue compulsory licenses for pharmaceutical products. Second, the amount of money available for the treatment and prevention of HIV/AIDS has increased dramatically, with the establishment of the World Bank Multi-Country HIV/AIDS Program for Africa (MAP), the Global Fund to Fight AIDS, Tuberculosis and Malaria and the US President's Emergency Plan for AIDS Relief (PEPFAR), among other funding initiatives.

TECHNICAL ASPECTS OF SOUND

PRECALCULUS WITH LIMITS: A GRAPHING APPROACH, AP* EDITION

Cengage Learning Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

AMAZONIAN DEFORESTATION AND CLIMATE

John Wiley & Son Limited "Results of Anglo-Brazilian Climate Observation Study (ABRACOS), which sought to improve climate model predictions. Significant 29 chapter contribution provides a technical examination of the multifaceted environmental topics: soils, water storage, pastures, forest canopy, leaf dynamics, biomass, radiation, and carbon dioxide"--Handbook of Latin American Studies, v. 57.

GLOSSARY OF ACOUSTICAL TERMS

306 CIRCUITS

EDISON

A LIFE OF INVENTION

Wiley The definitive biography of the century's godfather of invention-from the preeminent Edison scholar "Israel's meticulous research and refusal to shy away from the dodgier aspects of Edison's personality offers a fresh glimpse into the life of the inventor."-New Scientist "Remarkable."-Nature "An authoritative look into Edison's working methods, here leavened by enough personal detail to give the achievements shape."-Publishers Weekly "Highly recommended." "Israel's book should go a long way toward taking Edison

out of the shadows and placing him in the proper light."-Atlanta Journal-Constitution "Exhaustively researched, with strong emphasis on Edison's methods and achievements."-Kirkus Reviews The conventional story of Thomas Edison reads more like myth than history: With only three months of formal education, a hardworking young man overcomes the odds and becomes one of the greatest inventors in history. But the portrait that emerges from Edison: A Life of Invention reveals a man of genius and astonishing foresight whose career was actually a product of his fast-changing era. In this peerless biography, Paul Israel exposes for the first time the man behind the inventions, expertly situating his subject within a thoroughly realized portrait of a burgeoning country on the brink of massive change. Informed by Israel's unprecedented access to workshop diaries, notebooks, letters, and more than five million pages of archives, this definitive biography brings fresh insights to a singularly influential and triumphant career in science.

CODE OF PRACTICE FOR ELECTRIC VEHICLE CHARGING EQUIPMENT INSTALLATION

let Standards The Code of Practice for Electric Vehicle Charging Equipment Installation, 3rd Edition has been updated to align with the current requirements of BS 7671. This includes updated guidance on the electrical installation requirements of BS 7671:2018 (Section 722 Electric vehicle charging installations) to be published in July 2018. The Code of Practice provides an overview of electric vehicle charging equipment, considerations needed prior to installation, physical installation requirements, relevant electrical installation requirements of BS 7671:2018 and specific requirements when installing electric vehicle charging equipment in location's such as dwellings, on-street locations, commercial and industrial premises. Also included are useful installation checklists and risk assessment templates. Therefore this publication provided useful guidance for anyone interested in the installation of electric vehicle charging points. This is a practical guide for use by anyone planning to install electric vehicle charging equipment. It provides specific electrical installation requirements for electrical contractors as well as essential guidance for anyone planning to specify, procure or manage the installation of such equipment.