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KEY=CARRIER - EMERSON CHANCE

Smart Grids and Their Communication Systems Springer The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical engineering and communication engineering. It explores recent advances in several computing technologies and their performance evaluation, and addresses a wide range of topics, such as the essentials of smart grids for fifth generation (5G) communication systems. It also elaborates the role of emerging communication systems such as 5G, internet of things (IoT), IEEE 802.15.4 and cognitive radio networks in smart grids. The book includes detailed surveys and case studies on current trends in smart grid systems and communications for smart metering and monitoring, smart grid energy storage systems, modulations and waveforms for 5G networks. As such, it will be of interest to practitioners and researchers in the field of smart grid and communication infrastructures alike. **Modern Electric, Hybrid Electric, and Fuel Cell Vehicles** CRC Press "This book is an introduction to automotive technology, with specific reference to battery electric, hybrid electric, and fuel cell electric vehicles. It could serve electrical engineers who need to know more about automobiles or automotive engineers who need to know about electrical propulsion systems. For example, this reviewer, who is a specialist in electric machinery, could use this book to better understand the automobiles for which the reviewer is designing electric drive motors. An automotive engineer, on the other hand, might use it to better understand the nature of motors and electric storage systems for application in automobiles, trucks or motorcycles. The early chapters of the book are accessible to technically literate people who need to know something about cars. While the first chapter is historical in nature, the second chapter is a good introduction to automobiles, including dynamics of propulsion and braking. The third chapter discusses, in some detail, spark ignition and compression ignition (Diesel) engines. The fourth chapter discusses the nature of transmission systems." —James Kirtley, Massachusetts Institute of Technology, USA "The third edition covers extensive topics in modern electric, hybrid electric, and fuel cell vehicles, in which the profound knowledge, mathematical modeling, simulations, and control are clearly presented. Featured with design of various vehicle drivetrains, as well as a multi-objective optimization software, it is an estimable work to meet the needs of automotive industry." —Haiyan Henry Zhang, Purdue University, USA "The extensive combined experience of the authors have produced an extensive volume covering a broad range but detailed topics on the principles, design and architectures of Modern Electric, Hybrid Electric, and Fuel Cell Vehicles in a well-structured, clear and concise manner. The volume offers a complete overview of technologies, their selection, integration & control, as well as an interesting Technical Overview of the Toyota Prius. The technical chapters are complemented with example problems and user guides to assist the reader in practical calculations through the use of common scientific computing packages. It will be of interest mainly to research postgraduates working in this field as well as established academic researchers, industrial R&D engineers and allied professionals." —Christopher Donaghy-Sparg, Durham University, United Kingdom The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results. All the chapters have been updated, and two new chapters on Mild Hybrids and Optimal Sizing and Dimensioning and Control are also included • Chapters updated throughout the text. • New homework problems, solutions, and examples. • Includes two new chapters. • Features accompanying MATLAB™ software. **Webs of Influence The Psychology of Online Persuasion** Pearson UK As legions of businesses scramble to set up virtual-shop, we face an unprecedented level of competition to win over and keep new customers online. At the forefront of this battleground is your ability to connect with your customers, nurture your relationships and understand the psychology behind what makes them click. In this book The Web Psychologist, Nathalie Nahai, expertly draws from the worlds of psychology, neuroscience and behavioural economics to bring you the latest developments, cutting edge techniques and fascinating insights that will lead to online success. **Webs of Influence** delivers the tools you need to develop a compelling, influential and profitable online strategy which will catapult your business to the next level - with dazzling results. **The Postal Bulletin Computational Biochemistry and Biophysics** CRC Press Covering theoretical methods and computational techniques in biomolecular research, this book focuses on approaches for the treatment of macromolecules, including proteins, nucleic acids, and bilayer membranes. It uses concepts in free energy calculations, conformational analysis, reaction rates, and transition pathways to calculate and interpret b **Inside the Cold War A Cold Warrior's Reflections** General Adams reflects on his experiences in the cold war, during which he served in both manned bombers and missile silos. He tells stories of famous and not-so-famous cold warriors, including some from the US Navy. Some stories are humorous; some stories are tragic. Having traveled extensively in Russia and some former Soviet Union states after retirement, General Adams tells us about his former adversaries, the Soviet cold warriors. In the process, he leaves no doubt about his respect for all who served so valiantly in the "strategic triad"-- the strategic command, the ICBM force, and the submarine Navy. **Near-Surface Applied Geophysics** Cambridge University Press Just a few meters below the Earth's surface lie features of great importance, from geological faults which can produce devastating earthquakes, to lost archaeological treasures! This refreshing, up-to-date book explores the foundations of interpretation theory and the latest developments in near-surface techniques, used to complement traditional geophysical methods for deep-exploration targets. Clear but rigorous, the book explains theory and practice in simple physical terms, supported by intermediate-level mathematics. Techniques covered include magnetics, resistivity, seismic reflection and refraction, surface waves, induced polarization, self-potential, electromagnetic induction, ground-penetrating radar, magnetic resonance, interferometry, seismoelectric and more. Sections on data analysis and inverse theory are provided and chapters are illustrated by case studies, giving students and professionals the tools to plan, conduct and analyze a near-surface geophysical survey. This is an important textbook for advanced-undergraduate and graduate students in geophysics and a valuable reference for practising geophysicists, geologists, hydrologists, archaeologists, and civil and geotechnical engineers. **Multimodal Transport Law The Law Applicable to the Multimodal Contract for the Carriage of Goods** Kluwer Law International B.V. We only have to look around us on the road while we travel to work or home, or to use our eyes at a railway station to know that the transport of goods takes up a lot of the room our modern day infrastructures provide. Sometimes perhaps a little too much; nowadays congestion seems to be the rule rather than the exception. This is an uncomfortable side effect of the explosive growth freight transport has experienced the last few decades1. Modern day transport offers a considerable array of possibilities; possibilities that are for the most part taken for granted by the general public that enjoys their benefits. The average European would not be surprised to learn that the fruit on offer in the local supermarket originates from another continent for instance. The idea that most of the things we use in our daily routine stem from a distant source, such as a cell phone from Japan, a trendy pair of designer jeans made in China or a glass of Australian wine, seems completely natural to us. Clearly the contemporary transport industry offers us a lot of benefits besides such discomforts as congestion and pollution. In earlier times, before machinery such as the steam engine had been invented it was hardly cost effective or even feasible when it came to perishables to carry goods halfway around the world if they were not at least valuable and extraordinary2. The limitations set on trade by the transport structures available did more however than simply curtail the range of affordable products on offer for the public. They also had a negative effect on the location of the industry, limited transport possibilities and forced production to take place near or in heavily populated areas to secure the necessary workforce and market possibilities. After all, industrial decentralisation is only feasible if there is an infrastructure capable of supporting a cost effective movement of goods and employees3 ... **Distillation: Equipment and Processes** Academic Press **Distillation: Equipment and Processes**—winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers—is a single source of authoritative information on all aspects of the theory and practice of modern distillation, suitable for advanced students and professionals working in a laboratory, industrial plants, or a managerial capacity. It addresses the most important and current research on industrial distillation, including all steps in process design (feasibility study, modeling, and experimental validation), together with operation and control aspects. This volume features an extra focus on distillation equipment and processes. Winner of the 2015 PROSE Award in Chemistry & Physics from the Association of American Publishers **Practical information on the newest development written by recognized experts Coverage of a huge range of laboratory and industrial distillation approaches Extensive references for each chapter facilitates further study** **Mechanics of Microelectronics** Springer Science & Business Media This book is written by leading experts with both profound knowledge and rich practical experience in advanced mechanics and the microelectronics industry essential for current and future development. It aims to provide the cutting edge knowledge and solutions for various mechanical related problems, in a systematic way. It contains important and detailed information about the state-of-the-art theories, methodologies, the way of working and real case studies. **Surveying Vol. I** Firewall Media This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations. **Bibliotheca Annuar: Or, the Annual Catalogue Being an Exact Catalogue of All English and Latin Books Printed in England** **Satellite Geodesy Foundations, Methods, and Applications** Walter de Gruyter Completely revised and updated edition. The book covers the entire field of satellite geodesy (status spring/break summer 2002). Basic chapters on reference systems, time, signal propagation, and satellite orbits are updated. All currently important observation methods are included and also all newly launched satellites of interest to geodesy. Particular emphasis is given to the current status of the Global Positioning System (GPS), which covers now about one third of the book. A new chapter on Differential GPS and active GPS reference networks is included. The GPS modernization plans, GLONASS, the forthcoming European system GALILEO, modern developments in GPS data analysis, error modelling, precise real time methods and ambiguity resolution are dealt with in detail. New satellite laser ranging missions, new altimetry missions (e.g. TOPEX/Poseidon, ERS-1/2, GFO, JASON), and new and forthcoming gravity field missions (CHAMP, GRACE, GOCE) are also considered. The book serves as a textbook for advanced undergraduate and graduate students, as well as a reference for professionals and scientists in the field of engineering and geosciences such as geodesy, surveying, geo-information, navigation, geophysics and oceanography. **Popular Photography The British Journal of Photography Introductory Circuit Analysis, Global Edition** Pearson Higher Ed For courses in DC/AC circuits: conventional flow **Introductory Circuit Analysis**, the number one acclaimed text in the field for over three decades, is a clear and interesting information source on a complex topic. The 13th Edition contains updated insights on the highly technical subject, providing students with the most current information in circuit analysis. With updated software components and challenging review questions at the end of each chapter, this text engages students in a profound understanding of Circuit Analysis. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a

free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Encapsulation of Active Molecules and Their Delivery System [Elsevier](#) Encapsulation of Active Molecules and Their Delivery System covers the key methods of preparation of encapsulation, as well as release mechanisms and their applications in food, biotechnology, metal protection, drug delivery, and micronutrients delivery in agriculture. The book also provides real-life examples of applications in food and other industries. Sections encompasses (i) Synthesis and characterization methods of micro- and nanocarriers as the delivery systems, (ii) Up-to-date encapsulation techniques in the areas of pharmaceuticals, nutraceuticals and corrosion, (iii) The release methods of the encapsulated materials, and (iv) Industry perspectives, including scale up of the processes. Focuses on encapsulation processes in chemical and materials engineering and biotechnology Provides a relevant resource for the pharmaceutical and food industries Presents wide coverage on the entrapment of molecules that scales-up to industrial sized needs Electrical Engineering Principles and Applications [Prentice Hall](#) CD-ROMs contains: 2 CDs, "one contains the Student Edition of LabView 7 Express, and the other contains OrCAD Lite 9.2." Instructions In Physical Measurements [Hassell Street Press](#) This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. SPICE for Power Electronics and Electric Power [CRC Press](#) To be accredited, a power electronics course should cover a significant amount of design content and include extensive use of computer-aided analysis with simulation tools such as SPICE. Based upon the authors' experience in designing such courses, SPICE for Power Electronics and Electric Power, Second Edition integrates a SPICE simulator with a po Probability, Random Processes, and Statistical Analysis Applications to Communications, Signal Processing, Queueing Theory and Mathematical Finance [Cambridge University Press](#) Together with the fundamentals of probability, random processes and statistical analysis, this insightful book also presents a broad range of advanced topics and applications. There is extensive coverage of Bayesian vs. frequentist statistics, time series and spectral representation, inequalities, bound and approximation, maximum-likelihood estimation and the expectation-maximization (EM) algorithm, geometric Brownian motion and Itô process. Applications such as hidden Markov models (HMM), the Viterbi, BCJR, and Baum-Welch algorithms, algorithms for machine learning, Wiener and Kalman filters, and queueing and loss networks are treated in detail. The book will be useful to students and researchers in such areas as communications, signal processing, networks, machine learning, bioinformatics, econometrics and mathematical finance. With a solutions manual, lecture slides, supplementary materials and MATLAB programs all available online, it is ideal for classroom teaching as well as a valuable reference for professionals. Montreal's Expo 67 [Arcadia Publishing](#) In 1967, Canada celebrated the 100th anniversary of its founding with a spectacular party, and the whole world was invited. Montreal's Expo 67 was the first world's fair held in Canada, and it was a huge success, attracting over 50 million visitors. The 1,000-acre site was built on two man-made islands in the St. Lawrence River and incorporated 90 futuristic pavilions created by some of the world's greatest architects and designers. Over 60 countries were represented, along with many private, corporate and thematic pavilions, all brought together under the theme "Man and his World." With performers and entertainers of all varieties, restaurants, cultural attractions, exhibitions and a world-class amusement park, Expo 67 was literally the party of the century, exceeding all expectations. Flying Wings and Tailless Aircraft [Midland Pub Limited](#) This brilliant new volume provides a comprehensive history of flying wings and tailless aircraft. Designed and developed since the dawn of aviation these aircraft still hold a great importance today, with many aviation enthusiasts eager to learn more about these remarkable aircraft which provided the foundations for the modern aviation scene. Healthy Buildings How Indoor Spaces Drive Performance and Productivity A healthy building does more than conserve resources: it improves the health and productivity of the people inside. Joseph Allen and John Macomber look at everything from the air we breathe to the water we drink to how light, sound, and materials impact our performance and wellbeing and drive business profit. National Genealogical Society Quarterly Experimental Hepatocarcinogenesis [Springer Science & Business Media](#) The meeting on experimental hepatocarcinogenesis which took place in Spa, Belgium at the end of May 1987 was the Second European Meeting. About 100 scientists, mostly from Europe but also from the United States, met there for three days in a very friendly atmosphere to exchange knowledge and ideas on experimental and human liver carcinogenesis. The main topics discussed during the meeting included general reviews on hepatocarcinogenesis, experimental models of hepa tocarcinogenesis, biology of hepatocarcinogenesis, and in vitro studies in hepatocarcinogenesis. They are all covered by the various chapters of this proceedings volume, which reflects the present state of knowledge in this important field of cancer research. The final aim of that research is to understand the basic mechanisms of carcinogenesis. The liver offers a parti cularly interesting tool to reach such a goal. Indeed, its biochemistry, its morphology, and its physiology are very diverse, but relatively well known. Various protocols have been developed to produce hepatocellular carcinomas or other malignant tumors. Their appearance is most often preceded by phenotypically altered foci and nodules which have been isolated and characterized. The major cell populations of normal, neoplastic, and malignant livers have been cultivated. NFPA 33 Standard for Spray Application Using Flammable Or Combustible Materials The Gradall A Story of American Ingenuity [Jhg Partners](#) Adrian Willaert A Guide to Research [Psychology Press](#) This key text will be the first full-length research tool on Adrian Willaert, the Renaissance composer of motets and madrigals who came to prominence in the first part of the sixteenth century, and should prove invaluable to researchers and students. Introduction to Physical Metallurgy Iowa and War RTL Cookbook Hitler's Secret War in South America, 1939--1945 German Military Espionage and Allied Counterespionage in Brazil [LSU Press](#) In the years that followed World War II, hundreds of books were written about different aspects of that unprecedented conflict, but the details of the "secret war" in the West were slow to appear, in large part because of agreements concluded in 1945 between the American and British governments that forbade the release of information on covert operations, especially in the field of cryptanalysis, that is, the interception and decrypting of enemy radio communications. A curtain of silence thus descended on that vital phase of the Allied struggle against the European Axis. From the point of view of Germany's clandestine war effort, the situation was slightly different because the Reich had lost the war; even so, the archives of the Abwehr, as the Amt/Ausland of the Oberkommando der Wehrmacht, or Foreign Department of the Armed Forces High Command, was known, could not be located, and it was logically assumed that the Germans had destroyed them before the war ended. Isotopes and Radiation Technology Major Process Equipment Maintenance and Repair [Elsevier](#) This updated edition is an invaluable source of practical cost-effective maintenance, repair, installation, and field verification procedures for machinery engineers. It is filled with step-by-step instructions and quick-reference checklists that describe preventive and predictive maintenance for major process units such as vertical, horizontal, reciprocating, and liquid ring vacuum pumps, fans and blowers, compressors, turboexpanders, turbines, and more. Also included are sections on machinery protection, storage, lubrication, and periodic monitoring. A new section examines centrifugal pumps and explains how and why they continue to fail. More new information focuses on maintenance for aircraft derivative gas turbines. This revised edition gives special attention throughout to maintenance and repair procedures needed to ensure efficiency, performance, and long life. Child Custody Protection Act Hearing Before the Subcommittee on the Constitution of the Committee on the Judiciary, House of Representatives, One Hundred Sixth Congress, First Session, on H.R. 1218, May 27, 1999 The Edge of the Knife [The Floating Press](#) Part of this prolific author's popular Terra-Human Future History series, the tale "The Edge of the Knife" takes place just prior to the devastating world war that occurs in 1973, wiping out much of humanity and leading to the ascendance of a new world order. The story focuses on a protagonist who is plagued by brief glimpses of the future. Many fans regard this story as a thematic touchstone that yokes together much of Piper's oeuvre. Odour Measurement and Control An Update the problematic age of aisha ra [IslamKotob](#) The Art of Talk [Paper Chase](#) Intensely private radio personality Art Bell, who lives in the middle of the desert 65 miles west of Las Vegas--where he broadcasts his radio shows--finally comes forward with his fascinating autobiography.