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KEY=MANUAL - KENDAL CHAPMAN

MATERIALS HANDLING NEWS

A SECRET SORROW

HARLEQUIN COMICS

Harlequin / SB Creative After her nightmarish recovery from a serious car accident, Faye gets horrible news from her doctor, and it hits her hard like a rock: she can't bear children. In extreme shock, she breaks off her engagement, leaves her job and confines herself in her family home. One day, she meets her brother's best friend , and her soul makes a first step to healing.

ID SYSTEMS

PACKAGING

ENGINEERING DIGEST

THOMAS REGISTER OF AMERICAN MANUFACTURERS AND THOMAS REGISTER CATALOG FILE

Vols. for 1970-71 includes manufacturers' catalogs.

AMERICAN SPORTSWEAR & KNITTING TIMES

CANCER SOURCEBOOK

BASIC INFORMATION ON CANCER TYPES, SYMPTOMS, DIAGNOSTIC METHODS, AND TREATMENTS, INCLUDING STATISTICS ON CANCER OCCURRENCES WORLDWIDE AND THE RISKS ASSOCIATED WITH KNOWN CARCINOGENS AND ACTIVITIES

Omnigraphics Incorporated Discusses the types of cancer, treatments and therapies, statistics, and coping with the disease

DRUG AND COSMETIC CATALOG

THOMAS REGISTER

WIRELESS PUBLIC SAFETY NETWORKS VOLUME 1

OVERVIEW AND CHALLENGES

Elsevier **Wireless Public Safety Networks, Volume One: Overview and Challenges** presents the latest advances in the wireless Public Safety Networks (PSNs) field, the networks established by authorities to either prepare the population for an eminent catastrophe, or as support during crisis and normalization phases. Maintaining communication capabilities in a disaster scenario is crucial for avoiding loss of lives and damages to property. Wireless Public Safety Networks examines past communication failures that have directly contributed to the loss of lives. This book will give readers a broad view of the PSNs field, analyzing the benefits PSNs may bring to society, the main challenges related to the establishment and maintenance of these networks, the latest advancements in the field, and future perspectives. Discusses the ever changing requirements and impact of PSNs in mission critical scenarios Analyzes the evolving methods required to meet the growing demand of capable public safety networks Covers lessons learned and advances made to wireless communications to help prevent loss of lives and poor practice disaster management

DIGITAL MOBILE COMMUNICATIONS AND THE TETRA SYSTEM

John Wiley & Sons **TETRA** is a system for mobile wireless communications and this is a highly topical and comprehensive introduction to the design and applications of TETRA systems including practical examples. TETRA is comparable in structure to the world-wide successful GSM system, however, individual features of TETRA are different, often more efficient and better designed than in GSM. TETRA is therefore providing an important source for the further development of standards for mobile telecommunications. This volume is timely and one of the first to cover TETRA and related subject areas. Features include: * Detailed discussion of public and private mobile communications domain *

Architecture, components and services of TETRA and * Design and operational aspects of the system Based on courses for industry, presented by the authors, DigitalMobile Communications and the TETRA System will prove indispensable reading for service providers, design engineers and systems managers in the private mobile communications market. It also provides a thorough grounding in general digital mobile communications for communications engineers and undergraduate and postgraduate students in telecommunications.

ULTRASOUND TEACHING MANUAL

THE BASICS OF PERFORMING AND INTERPRETING ULTRASOUNDS SCANS

Thieme Ideal for radiology residents & technicians, this concise "workbook" is the perfect guide to the use of ultrasound scanners. Designed as a learning tool, it introduces the various applications of American scanners for all organs, including positioning, step-by-step descriptions of each procedure, representative ultrasound scans of normal & pathological findings, explanatory drawings, & an overview of the most important measurement data. Finally, self-assessment quizzes - including answers - at the end of each chapter help monitor progress & evaluate knowledge.

MOBILE BROADBAND COMMUNICATIONS FOR PUBLIC SAFETY

THE ROAD AHEAD THROUGH LTE TECHNOLOGY

John Wiley & Sons This book provides a timely and comprehensive overview of the introduction of LTE technology for PPDR communications. It describes the operational scenarios and emerging multimedia and data-centric applications in demand and discusses the main techno-economic drivers that are believed to be pivotal for an efficient and cost-effective delivery of mobile broadband PPDR communications. The capabilities and features of the LTE standard for improved support of mission-critical communications (e.g., proximity services, group communications) are covered in detail. Also, different network implementation options to deliver mobile broadband PPDR communications services over dedicated or commercial LTE-based networks are discussed, including the applicability of the Mobile Virtual Network Operator (MVNO) model and other hybrid models. Radio spectrum matters are also discussed in depth, outlining spectrum needs and providing an outlook into allocated and candidate spectrum bands for PPDR communications and suitable dynamic spectrum sharing solutions in PPDR communications. Explanations are accompanied by a vast collection of references that allow the more intrigued reader to gain further insight into the addressed topics.

EMERGENCY ALERT AND WARNING SYSTEMS

CURRENT KNOWLEDGE AND FUTURE RESEARCH DIRECTIONS

National Academies Press Following a series of natural disasters, including Hurricane Katrina, that revealed shortcomings in the nation's ability to effectively alert populations at risk, Congress passed the Warning, Alert, and Response Network (WARN) Act in 2006. Today, new technologies such as smart phones and social media platforms offer new ways to communicate with the public, and the information ecosystem is much broader, including additional official channels, such as government social media accounts, opt-in short message service (SMS)-based alerting systems, and reverse 911 systems; less official channels, such as main stream media outlets and weather applications on connected devices; and unofficial channels, such as first person reports via social media. Traditional media have also taken advantage of these new tools, including their own mobile applications to extend their reach of beyond broadcast radio, television, and cable. Furthermore, private companies have begun to take advantage of the large amounts of data about users they possess to detect events and provide alerts and warnings and other hazard-related information to their users. More than 60 years of research on the public response to alerts and warnings has yielded many insights about how people respond to information that they are at risk and the circumstances under which they are most likely to take appropriate protective action. Some, but not all, of these results have been used to inform the design and operation of alert and warning systems, and new insights continue to emerge. *Emergency Alert and Warning Systems* reviews the results of past research, considers new possibilities for realizing more effective alert and warning systems, explores how a more effective national alert and warning system might be created and some of the gaps in our present knowledge, and sets forth a research agenda to advance the nation's alert and warning capabilities.

RF COMPONENTS AND CIRCUITS

Elsevier Some basic knowledge of electronics is assumed, but the essential features of RF are fully described, including the important topic of receiver dynamic which is often overlooked in basic textbooks. The theory and circuit descriptions are geared towards genuine design applications rather than the oversimplifications and skeleton circuits of many college texts. During his career, the late Joe Carr was one of the world's leading writers on electronics and radio, and an authority on the design and use of RF systems. Whether you are looking for a complete self-study course in RF technology, or a concise reference text to dip into, this book has the solution. A complete course in understanding and designing RF circuits Practical design knowhow from a world-class author

SENSORS AND TRANSDUCERS

Elsevier In this book Ian Sinclair provides the practical knowhow required by technician engineers, systems designers and students. The focus is firmly on understanding the technologies and their different applications, not a mathematical approach. The result is a highly readable text which provides a unique introduction to the selection and

application of sensors, transducers and switches, and a grounding in the practicalities of designing with these devices. The devices covered encompass heat, light and motion, environmental sensing, sensing in industrial control, and signal-carrying and non-signal switches. Get up to speed in this key topic through this leading practical guide Understand the range of technologies and applications before specifying Gain a working knowledge with a minimum of maths

THE TAB BOOK OF ARDUINO PROJECTS: 36 THINGS TO MAKE WITH SHIELDS AND PROTO SHIELDS

McGraw Hill Professional The ultimate collection of DIY Arduino projects! In this easy-to-follow book, electronics guru Simon Monk shows you how to create a wide variety of fun and functional gadgets with the Arduino Uno and Leonardo boards. Filled with step-by-step instructions and detailed illustrations, The TAB Book of Arduino Projects: 36 Things to Make with Shields and Proto Shields provides a cost estimate, difficulty level, and list of required components for each project. You'll learn how to design custom circuits with Proto Shields and solder parts to the prototyping area to build professional-quality devices. Catapult your Arduino skills to the next level with this hands-on guide. Build these and many more innovative Arduino creations: Persistence-of-vision (POV) display High-power LED controller Color recognizer RFID door lock Fake dog Person counter Laser alarm Theramin-like instrument FM radio receiver Email notifier Network temperature and humidity sensor Seven segment LED clock Larson scanner Conway's game of life Singing plant Ultrasonic rangefinder Temperature and light logger Autoranging capacitance meter Geiger counter

FASTER

100 WAYS TO IMPROVE YOUR DIGITAL LIFE (UPDATED EDITION)

Penguin UK Our phones, computers and tablets are getting more powerful—but how many of us know the ways to get the most out of them? Bestselling author Ankit Fadia shows you how. • Send an email in the future • Fake an incoming call on your mobile phone • Catch a cheating partner red-handed! • Remember where you parked your car • Block inappropriate websites from your kids • Automate tasks on your mobile phone • Hide files inside photographs! *Faster: 100 Ways to Improve Your Digital Life* contains all the tips and tricks for you to stretch the limits of emails, computers, social networks, video sites and everything else digital. With easy-to-use examples and loads of screenshots, *Faster* is the perfect digital companion for you.

BATTERY REFERENCE BOOK

Elsevier Crompton's Battery Reference Book has become the standard reference source for a wide range of professionals and students involved in designing, manufacturing, and specifying products and systems that use batteries. This book is unique in providing extensive data on specific battery types, manufacturers and suppliers, as well as covering the theory - an aspect of the book which makes an updated edition important for every professional's library. The coverage of different types of battery is fully comprehensive, ranging from minute button cells to large installations weighing several hundred tonnes. Must-have information and data on all classes of battery in an accessible form Essential reference for design engineers in automotive and aerospace applications, telecommunications equipment, household appliances, etc. Informs you of developments over the past five years

STARTING ELECTRONICS

Elsevier *Starting Electronics* is unrivalled as a highly practical introduction for technicians, non-electronic engineers, software engineers, students, and hobbyists. Keith Brindley introduces readers to the functions of the main component types, their uses, and the basic principles of building and designing electronic circuits. Breadboard layouts make this very much a ready-to-run book for the experimenter, and the use of readily available, inexpensive components makes this practical exploration of electronics easily accessible to all levels of engineer and hobbyist. Other books tell readers what to do, but sometimes fail to explain why - Brindley gives readers hands-on confidence in addition to real scientific knowledge, and insight into the principles as well as the practice. All written explanations and steps are supplemented with numerous photos, charts, tables and graphs. Concepts and practical aspects are explained thoroughly with mathematical formulae and technical schematic drawings. Each chapter introduces a concept or tool, explains the basic theory, and provides clear instructions for a simple experiment to apply the concept or tool, with quiz sections and answers, at the end of each chapter. New chapters on multimeters and soldering will be added, covering the fundamentals and experiments, with a basic parts list and an expanded and updated buyer's guide. Guides the reader through the basics of electronics, from fundamentals of theory to practical work and experiments Structured for learning and self-study: each chapter introduces a concept or tool, explains the basic theory, and provides clear instructions for a simple experiment to apply the concept or tool, with quiz sections and answers, at the end of each chapter New chapters on multimeters and soldering, covering the fundamentals and experiments, with a basic parts list. Expanded and updated buyer's guide to accompany parts lists

ELECTRICAL CODES, STANDARDS, RECOMMENDED PRACTICES AND REGULATIONS

AN EXAMINATION OF RELEVANT SAFETY CONSIDERATIONS

William Andrew Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many

engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to the relevant requirements. Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes, standards, recommended practices and regulations in the United States involving electrical safety and design, providing a comprehensive reference for engineers and electrical safety professionals Documents are identified by category, enabling easy access to the relevant requirements Not version-specific; information is not reliant on the latest edition or release of the codes, standards, recommended practices or regulations

ELECTRONICS FOR DUMMIES

John Wiley & Sons

ELECTRONIC GADGETS FOR THE EVIL GENIUS

21 BUILD-IT-YOURSELF PROJECTS, SECOND EDITION

McGraw Hill Professional **BUILD ALL-NEW FIENDISHLY FUN ELECTRONICS PROJECTS!** Spark your creativity with this wickedly inventive guide. *Electronic Gadgets for the Evil Genius, Second Edition*, is filled with completely new, amped-up projects that will shock and amaze, such as super-big Tesla coils, lasers, plasma devices, and electrokinetics contraptions. Using affordable, easy-to-find components and equipment, each do-it-yourself project begins with information on safety, the difficulty level, practical uses for the gadget, and the tools needed to complete the project. You'll gain valuable skills while enjoying hours of rewarding--and slightly twisted--fun! *Electronic Gadgets for the Evil Genius, Second Edition*: Features step-by-step instructions and helpful illustrations Provides full schematic and construction details for every project Covers the scientific principles behind the projects Removes the frustration factor--all required parts are listed along with sources Build these and other devious devices: Automatic programmable charger Full-feature plasma driver Capacitor-discharge drilling machine and dielectric tester Capacitor exploder Field detector High-power therapeutic magnetic pulser Singing arc Solid-state Tesla coil Six-foot Jacob's ladder Free high-voltage experimental energy device HHO reactor cell Hydrogen howitzer Faraday cage

TRANSMISSION AND DISTRIBUTION ELECTRICAL ENGINEERING

Elsevier Chapter 1: System Studies -- Chapter 2: Drawings and Diagrams -- Chapter 3: Substation Layouts -- Chapter 4: Substation Auxiliary Power Supplies -- Chapter 5: Current and Voltage Transformers -- Chapter 6: Insulators -- Chapter 7: Substation Building Services -- Chapter 8: Earthing and Bonding -- Chapter 9: Insulation Co-ordination -- Chapter 10: Relay Protection -- Chapter 11: Fuses and Miniature Circuit Breakers -- Chapter 12: Cables -- Chapter 13: Switchgear -- Chapter 14: Power Transformers -- Chapter 15: Substation and Overhead Line Foundations -- Chapter 16: Overhead Line Routing -- Chapter 17: Structures, Towers and Poles -- Chapter 18: Overhead Line Conductor and Technical Specifications -- Chapter 19: Testing and Commissioning -- Chapter 20: Electromagnetic Compatibility -- Chapter 21: Supervisory Control and Data Acquisition -- Chapter 22: Project Management -- Chapter 23: Distribution Planning -- Chapter 24: Power Quality- Harmonics in Power Systems -- Chapter 25: Power Qual ...

30 ARDUINO PROJECTS FOR THE EVIL GENIUS, SECOND EDITION

McGraw-Hill Professional This do-it-yourself guide shows you how to program and build projects with the Arduino Uno and Leonardo boards and the Arduino 1.0 development environment. It gets you started right away with the simplified C programming you need to know and demonstrates how to take advantage of the latest Arduino capabilities. You'll learn how to attach an Arduino board to your computer, program it, and connect electronics to it to create your own devices. A bonus chapter uses the special USB keyboard/mouse-impersonation feature exclusive to the Arduino Leonardo--

EMC FOR PRODUCT DESIGNERS

Elsevier Tim Williams has worked for a variety of companies as an electronic design engineer over the last 20 years. He has monitored the progress of the EMC Directive and its associated standards since it was first made public. He is a member of the Institution of Electrical Engineers and now runs his own consultancy, specialising in EMC design and training. *Save money on consultancy bills with this book *Practical guide to implementing EMC within the product design process *The leading professional guide to the EMC Directive -100% up-to-date and reliable

SIMPLY ELECTRIFYING

THE TECHNOLOGY THAT TRANSFORMED THE WORLD, FROM BENJAMIN FRANKLIN TO ELON MUSK

BenBella Books Selected for J.P. Morgan's 2018 Holiday Reading List Imagine your life without the internet. Without phones. Without television. Without sprawling cities. Without the freedom to continue working and playing after the sun goes down. Electricity is at the core of all modern life. It has transformed our society more than any other technology. Yet, no book offers a comprehensive history about this technological marvel. Until now. *Simply Electrifying: The Technology that Transformed the World, from Benjamin Franklin to Elon Musk* brings to life the 250-

year history of electricity through the stories of the men and women who used it to transform our world: Benjamin Franklin, James Watt, Michael Faraday, Samuel F.B. Morse, Thomas Edison, Samuel Insull, Albert Einstein, Rachel Carson, Elon Musk, and more. In the process, it reveals for the first time the complete, thrilling, and often-dangerous story of electricity's historic discovery, development, and worldwide application. Electricity plays a fundamental role not only in our everyday lives but in history's most pivotal events, from global climate change and the push for wind- and solar-generated electricity to Japan's nuclear accident at Fukushima and Iran's pursuit of nuclear weapons. Written by electricity expert and four-decade veteran of the industry Craig R. Roach, *Simply Electrifying* marshals, in fascinating narrative detail, the full range of factors that shaped the electricity business over time—science, technology, law, politics, government regulation, economics, business strategy, and culture—before looking forward toward the exhilarating prospects for electricity generation and use that will shape our future.

UNDERSTANDING AUTOMOTIVE ELECTRONICS

FOUNDATIONS OF STRUCTURAL GEOLOGY

This highly-regarded introductory textbook has been used by many generations of students worldwide. It is specifically tailored to the requirements of first or second year geology undergraduates.

THE HOMEOWNER'S DIY GUIDE TO ELECTRICAL WIRING

McGraw Hill Professional **A practical, money-saving guide to home electrical wiring** Handle residential wiring projects correctly, safely, and according to the National Electrical Code (NEC). Filled with clear photos and helpful diagrams, *The Homeowner's DIY Guide to Electrical Wiring* shows you how to quickly and easily navigate the portions of the NEC that pertain to residential installations. This hands-on resource covers basic electronics and explains how electrical service progresses through your home. It describes how to install and test electrical systems and lighting, repair appliances and TVs, and upgrade to the latest innovations such as home networking, home automation, and alternate power systems. You'll learn the procedures used by professional electricians to create the kind of quality work that will pass inspection and add value to your home. *The Homeowner's DIY Guide to Electrical Wiring* shows how to: Protect against fire and shock hazards Track electrical service from the point of connection to the entrance panel Follow NEC requirements for residential projects Work with test equipment and installation tools Use the best techniques for quality electrical work Design and install indoor and outdoor lighting Maintain and repair electrically powered appliances Fix CRT, plasma, and LCD TVs Design a data and communications network and install coax, USB, and Ethernet cabling Install a home automation system Install backup and alternate power systems Work with smart meters

MATLAB

A PRACTICAL INTRODUCTION TO PROGRAMMING AND PROBLEM SOLVING

Butterworth-Heinemann **MatLab, Third Edition** is the only book that gives a full introduction to programming in MATLAB combined with an explanation of the software's powerful functions, enabling engineers to fully exploit its extensive capabilities in solving engineering problems. The book provides a systematic, step-by-step approach, building on concepts throughout the text, facilitating easier learning. Sections on common pitfalls and programming guidelines direct students towards best practice. The book is organized into 14 chapters, starting with programming concepts such as variables, assignments, input/output, and selection statements; moves onto loops; and then solves problems using both the 'programming concept' and the 'power of MATLAB' side-by-side. In-depth coverage is given to input/output, a topic that is fundamental to many engineering applications. Vectorized Code has been made into its own chapter, in order to emphasize the importance of using MATLAB efficiently. There are also expanded examples on low-level file input functions, Graphical User Interfaces, and use of MATLAB Version R2012b; modified and new end-of-chapter exercises; improved labeling of plots; and improved standards for variable names and documentation. This book will be a valuable resource for engineers learning to program and model in MATLAB, as well as for undergraduates in engineering and science taking a course that uses (or recommends) MATLAB. Presents programming concepts and MATLAB built-in functions side-by-side Systematic, step-by-step approach, building on concepts throughout the book, facilitating easier learning Sections on common pitfalls and programming guidelines direct students towards best practice

ELECTRICAL ENGINEERING 101

EVERYTHING YOU SHOULD HAVE LEARNED IN SCHOOL...BUT PROBABLY DIDN'T

Elsevier **Electrical Engineering 101** covers the basic theory and practice of electronics, starting by answering the question "What is electricity?" It goes on to explain the fundamental principles and components, relating them constantly to real-world examples. Sections on tools and troubleshooting give engineers deeper understanding and the know-how to create and maintain their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the reader the tools to take their electronics education to the next level. It is written in a down-to-earth style and explains jargon, technical terms and schematics as they arise. The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems. This third edition includes more real-world examples and a glossary of formulae. It contains new coverage of: Microcontrollers FPGAs Classes of

components Memory (RAM, ROM, etc.) Surface mount High speed design Board layout Advanced digital electronics (e.g. processors) Transistor circuits and circuit design Op-amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts, in terms they can understand and relate to everyday life. Updated content throughout and new material on the latest technological advances. Provides readers with an invaluable set of tools and references that they can use in their everyday work.

FINANCIAL ACCOUNTING, WITH ANNUAL REPORT

John Wiley & Sons Incorporated Administer your course eGrade Plus can easily be integrated with another course management system, gradebook, or other resources you are using in your class. Provide students with problems-Solving support eGrade Plus can link homework problems to the relevant section of the online text, providing context-sensitive help.

ELECTRONICS FROM THE GROUND UP: LEARN BY HACKING, DESIGNING, AND INVENTING

McGraw Hill Professional Discover the inner-workings of electronics through innovative hands-on experiments Are you fascinated by the power of even the smallest electronic device? Electronics from the Ground Up guides you through step-by-step experiments that reveal how electronic circuits function so you can advance your skills and design custom circuits. You'll work with a range of circuits and signals related to optical emitters and receivers, audio, oscillators, and video. This practical resource explains components, construction techniques, basic test equipment, circuit analysis, and troubleshooting. Photographs, schematics, equations, and graphs are included throughout. By the end of the book, you'll be able to hack and modify existing circuits to create your own unique designs. Do-it-yourself experiments cover: Batteries, lamps, and flashlights Light emitters and receivers Diodes, rectifiers, and associated circuits Transistors, FETs, and vacuum tubes Amplifiers and feedback Audio signals and circuits Oscillators AM and FM signals and circuits Video basics, including video signals Video circuits and systems "Excellent... Nothing can replace hands-on experience and Quan immerses the hobbyist/designer right into the fray up to their elbows."—EDN Magazine

HOW TO DIAGNOSE AND FIX EVERYTHING ELECTRONIC, SECOND EDITION

McGraw Hill Professional A Fully Revised Guide to Electronics Troubleshooting and Repair Repair all kinds of electrical products, from modern digital gadgets to analog antiques, with help from this updated book. How to Diagnose and Fix Everything Electronic, Second Edition, offers expert insights, case studies, and step-by-step instruction from a lifelong electronics guru. Discover how to assemble your workbench, use the latest test equipment, zero in on and replace dead components, and handle reassembly. Instructions for specific devices, including stereos, MP3 players, digital cameras, flat-panel TVs, laptops, headsets, and mobile devices are also included in this do-it-yourself guide. Choose the proper tools and set up your workbench Ensure personal safety and use proper eye and ear protection Understand how electrical components work and why they fail Perform preliminary diagnoses based on symptoms Use test equipment, including digital multimeters, ESR meters, frequency counters, and oscilloscopes Interpret block, schematic, and pictorial diagrams Disassemble products and identify sections Analyze circuits, locate faults, and replace dead parts Re-establish connections and reassemble devices

ELECTRICAL ENGINEER'S REFERENCE BOOK

Elsevier Electrical Engineer's Reference Book, Fourteenth Edition focuses on electrical engineering. The book first discusses units, mathematics, and physical quantities, including the international unit system, physical properties, and electricity. The text also looks at network and control systems analysis. The book examines materials used in electrical engineering. Topics include conducting materials, superconductors, silicon, insulating materials, electrical steels, and soft irons and relay steels. The text underscores electrical metrology and instrumentation, steam-generating plants, turbines and diesel plants, and nuclear reactor plants. The book also discusses alternative energy sources. Concerns include wind, geothermal, wave, ocean thermal, solar, and tidal energy. The text then looks at alternating-current generators. Stator windings, insulation, output equation, armature reaction, and reactants and time-constraints are described. The book also examines overhead lines, cables, power transformers, switchgears and protection, supply and control of reactive power, and power systems operation and control. The text is a vital source of reference for readers interested in electrical engineering.

DIGITAL TRANSFORMATION

SURVIVE AND THRIVE IN AN ERA OF MASS EXTINCTION

RosettaBooks The legendary Silicon Valley entrepreneur examines how both business and government organizations can harness the power of disruptive technologies. Tom Siebel, the billionaire technologist and founder of Siebel Systems, discusses how four technologies—elastic cloud computing, big data, artificial intelligence, and the internet of things—are fundamentally changing how business and government will operate in the 21st century. While this profound and fast-moving transformation can appear daunting to some, Siebel shows how organizations can not only survive, but thrive in the new digital landscape. In this authoritative yet accessible book, Siebel guides readers through the technologies driving digital transformation, and demonstrates how they can strategically exploit their powerful capabilities. He shows how leading enterprises such as Enel, 3M, Royal Dutch Shell, the U.S. Department of Defense, and others are applying AI and IoT with stunning results.

INTRODUCTION TO ELECTRIC CIRCUITS

Elsevier **An Introduction to Electric Circuits** is essential reading for first year students of electronics and electrical engineering who need to get to grips quickly with the basic theory. This text is a comprehensive introduction to the topic and, assuming virtually no knowledge, it keeps the mathematical content to a minimum. As with other textbooks in the series, the format of this book enables the student to work at their own pace. It includes numerous worked examples throughout the text and graded exercises, with answers, at the end of each section.

DIY DRONES FOR THE EVIL GENIUS: DESIGN, BUILD, AND CUSTOMIZE YOUR OWN DRONES

McGraw Hill Professional **Design, build, and pilot custom drones—no prior experience necessary!** This fun guide shows, **step-by-step, how to construct powerful drones from inexpensive parts, add personalized features, and become a full-fledged pilot.** **DIY Drones for the Evil Genius: Design, Build, and Customize Your Own Drones** not only covers safety, mechanics, drone design, and assembly, but also teaches the basics of Aerospace Engineering. You will discover how to add video transmitters, GPS, first-person view, and virtual reality goggles to your creations. The book walks you through the FAA licensing process and takes a look at advanced concepts, such as artificial intelligence and autonomous flight.

- Learn about aircraft parts, control mechanics, and safety practices
- Become an expert pilot—even handle flips and high-speed maneuvers
- Pick the perfect parts for your high-performance drone
- Find out how to solder and start assembling your drone
- Program the aircraft, calibrate the motors, and start flying!
- Add LED lights, GoPro mounts, and self-balancing camera gimbals
- Explore the world of first-person-view (FPV) drones and high-speed racing
- See how artificial intelligence can be put to use in the drone industry