Electrical Engineering Ebook Blogspot

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The Career Toolkit: Essential Skills for Success That No One Taught You Charlesbridge Publishing
The CRC Principles and Applications in Engineering series is a library of convenient, economical references sharply focused on particular engineering topics and subspecialties. Each volume in the series comprises chapters carefully selected from CRC's bestselling handbooks, logically organized for optimum convenience, and thoughtfully priced to fit
Plant Hazard Analysis and Safety Instrumentation Systems Academic Press
Written by experienced teachers and recognized experts in electrical engineering, Handbook of Electrical Engineering Calculations identifies and solves the seminal problems with numerical techniques for the principal branches of the field -- electric power, electromagnetic fields, signal analysis, communication systems, control systems, and computer engineering. It covers electric power engineering, electromagnetics, algorithms used in signal analysis, communication systems, algorithms used in control systems, and computer engineering. Illustrated with detailed equations, helpful drawings, and easy-to-understand tables, the book serves as a practical, on-the-job reference.
Physics of Radio-Frequency Plasmas CRC Press
This book is designed to serve as a resource for exploring and understanding basic electrical engineering concepts, principles, analytical and mathematical strategies that will aid the reader in progressing their electrical engineering knowledge to intermediate or advanced levels. The study of electrical engineering concepts, principles and analysis techniques is made relatively easy for the reader by inclusion of most of the reference data, in form of excerpts from different parts of the book, within the discussion of each case study, exercise and self-assessment problem solution. This is done in an effort to facilitate quick study and comprehension of the material without repetitive search for reference data in other parts of the book. To this new edition the author has introduced a new chapter on batteries where the basic, yet important, facets of the battery and its sustainable and safe operation is covered. The reader will be shown the not-so-obvious charging and discharging performance characteristics of batteries that can be determining factors in the selection, application and optimal performance of batteries.
The Chronicles of Lorenzo Courier Corporation
The Book has been thoroughly revised, keeping in mind the rapid technological advances in this mammoth industry and also the feedback received from various quarters. Relevant extracts from current SOLAS. IACS, Lloyd's Register, DNV and ABS Rules, have been included with permission. However, these must be used only for academic purposes. Relevant current documents onboard ships musl be referred to, for the purpose of complying with Classification Societies' and other Statutory Requirements.
Routledge
Sensors are all around us. They are in phones, cars, planes, trains, robots, mils, lathes, packaging lines, chemical plants, power plants, etc. Modern technology could not exist without sensors. The sensors measure what we need to know and the control system then performs the desired actions. When an engineer builds any machine he or she needs to have basic understanding about sensors. Correct sensors need to be selected for the design right from the start. The designer needs to think about the ranges, required accuracy, sensor cost, wiring, correct installation and placement etc. Without the basic knowledge of sensors fundamental no machine can be built successfully today. The objective of this book is to provide the basic knowledge to electrical and mechanical engineers, engineering students and hobbyist from the field of sensors to help them with the selection of “ proper ” sensors for their designs. No background knowledge in electrical engineering is required, all the necessary basics are provided. The book explains how a sensor works, in what ranges it can be used, with what accuracy etc. It also provides examples of industrial application for selected sensors. The book covers all the major variables in mechanical engineering such as temperature, force, torque, pressure, humidity, position, speed, acceleration etc. The approach is always as follows: - Explain how the sensor works, what is the principle - Explain in what ranges and with what accuracy it can work - Describe its properties with charts, eventually equations - Give examples of such sensors including application examples
Electrical Engineering Fundamentals Manoj Dole
Refrigeration and Air Condition Technician First Year MCQ is a simple e-Book for ITI Course Revised NSQF Syllabus, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest & Important about safety precautions, marking, sawing, filing, drilling, reaming, taping and dieing etc. Produce Sheet metal components Identify electrical safety. Join different wire, measure power, currents, volts and earth resistance etc. Connect single phase, 3 phase motors i.e. star and delta connections. Identify the electronic components and their colour code i.e. transistor, capacitor, diode, amplifier, I.C and able to work soldering. Perform gas welding, brazing, soldering observing related safety. Identify RAC tools and equipment and recognize different parts of RAC system. Perform copper tube cutting, flaring, swaging, brazing. Test mechanical & electrical components. Perform leak test, vacuuming, gas charging, wiring & installation of refrigerator. Perform door alignment, door gasket fitting, replace door switch. Test compressor motor terminal, start compressor Direct with relay & without relay, technique of flushing, leak testing, replacing capillary & filter drier, evacuation & gas charging. Check components of frost-free refrigerator (electrical / mechanical), wiring of frost-free freeze & air distribution in refrigerator sector. Leak detection, evacuators & gas charging. Dismantle, repair and assemble hermetic, fixed and variable speed compressor, and test performance. Identify the terminals of sealed compressor and their wiring and measure current, volts, watts and use of DOL starter with different types of motors Perform selection of Hermetic compressor for different appliances, starting methods, testing controls & safety cut out used in sealed compressor. Identify the components of control system of Inverter A.C and wiring of control systemPerform servicing & de-scaling of condenser (internals &externals) used in different appliances Perform fitting & adjustment of drier, filter & refrigerant controls used in different refrigeration system.Perform servicing of different evaporator used in different appliances.Carry out Recovery and Recycling of Refrigerant used, alternative of CFC, HFC re-cover, transfer & handling of gas cylinders.Retrofit CFC/HFC machine with ozone friendly refrigerant with understanding of the compatibility.Pack thermal insulation and prevent cooling leakage. Install window AC, test Electrical & electronics components & Fault diagnosis & remedial measures.Perform servicing of electrical & electronic control test, installation, wiring, fault finding & remedial measures of different split AC.Perform servicing of car AC. Fault diagnosis & remedial measures
Business Communication: In Person, In Print, Online John Wiley & Sons
Networking, negotiating, communicating, leading, career planning--all skills critical to your career success. But did anyone ever teach you these skills? The Career Toolkit will help you master these vital skills and yield outsized returns for your career and your income. Every chapter is packed with dozens of actionable principles, exercises, and practices that will accelerate your success. It's a multivitamin for your career! The Career Toolkit shows you how to design and execute your personal plan to achieve the career you deserve, including: Negotiating a job offer. (This alone will pay for the book.) Creating a dynamic career strategy. Building a high-value network. Developing the fundamental leadership skills that matter most. Managing teams effectively, even as an individual contributor.
Power System Grounding and Transients Packt Publishing Ltd
I began writing this book on my 74th birthday. My objective at the time was to record a short account each day so as to have a collection of 365 stories one year later. Gradually, I fell behind and decided to write only 254 little vignettes instead. Finally, after falling even more behind, I decided to write five volumes of 200 stories each. This is Volume 1. In May of 2017 I launched a Patreon site where I could interact with a few people who wanted to support my writing on a monthly basis. These are my patrons, and without them I most likely would not have finished this first volume. However, their financial support and words of encouragement worked, and here we are today. As I released parts of this book for them to read, their comments began to change my concept of what it was to be. I first began writing these stories by hand, and so they were quite short for the most part. After switching to writing on my computer, coupled with comments from my patrons, my stories gradually became longer, not all of them, but for the most part I liked the ideas that I was hearing, and so my stories have been getting longer lately. As you will see, there is no plan or structure to the flow of these stories. Each day, as I sat down to write one, I simply wrote about whatever struck my fancy on that day. The result, however, opened my eyes to reveal what my subconscious daily thoughts were finding interesting or significant enough to spend the time writing about. Ultimately, our stories make up the fabric of our lives. I've got many more stories to tell, but here are the first 200 that came to my mind. I hope that you enjoy reading them as much as I have enjoyed living them.
Electrical Power Systems Technology, Third Edition CRC Press
This leading-edge circuit design resource offers the knowledge needed to quickly pinpoint transmission problems that can compromise circuit design. Discusses both design and debug issues at gigabit per second data rates.
Marine Electrical Technology, 4/e H/C Artech House
Everyone knows that engineers must be good at math, but many students fail to realize just how much writing engineering involves: reports, memos, presentations, specifications—all fall within the purview of a practicing engineer, and all require a polished clarity that does not happen by accident. A Guide to Writing as an Engineer provides essential guidance toward this critical skill, with practical examples, expert discussion, and real-world models that illustrate the techniques engineers use every day. Now in its Fifth Edition, this invaluable guide has been updated to reflect the most current standards of the field, and leverage the eText format to provide interactive examples, Engineering Communication Challenges, self-quizzes, and other learning tools. Students build a more versatile skill set by applying core communication techniques to a variety of situations professional engineers encounter, equipping them with the knowledge and perspective they need to succeed in any workplace. Although suitable for first-year undergraduate students, this book offers insight and reference for every stage of a young engineer ’ s career.
Designing High Availability Systems Cambridge University Press
For almost 30 years, this book has been a classic text for electronics enthusiasts. Now completely updated for today?s technology with easy explanations and presented in a more user-friendly format, this third edition helps you learn the essentials you need to work with electronic circuits. All you need is a general understanding of electronics concepts such as Ohm?s law and current flow, and an acquaintance with first-year algebra. The question-and-answer format, illustrative experiments, and self-tests at the end of each chapter make it easy for you to learn at your own speed.
Electronics Mechanic First Year MCQ One World
PSpice for Circuit Theory and Electronic Devices is one of a series of five PSpice books and introduces the latest Cadence Orcad PSpice version 10.5 by simulating a range of DC and AC exercises. It is aimed primarily at those wishing to get up to speed with this version but will be of use to high school students, undergraduate students, and of course, lecturers. Circuit theorems are applied to a range of circuits and the calculations by hand after analysis are then compared to the simulated results. The Laplace transform and the s-plane are used to analyze CR and LR circuits where transient signals are involved. Here, the Probe output graphs demonstrate what a great learning tool PSpice is by providing the reader with a visual verification of any theoretical calculations. Series and parallel-tuned resonant circuits are investigated where the difficult concepts of dynamic impedance and selectivity are best understood by sweeping different circuit parameters through a range of values. Obtaining semiconductor device characteristics as a laboratory exercise has fallen out of favour of late, but nevertheless, is still a useful exercise for understanding or modelling semiconductor devices. Inverting and non-inverting operational amplifiers characteristics such as gain-bandwidth are investigated and we will see the dependency of bandwidth on the gain using the performance analysis facility. Power amplifiers are examined where PSpice/Probe demonstrates very nicely the problems of cross-over distortion and other problems associated with power transistors. We examine power supplies and the problems of regulation, ground bounce, and power factor correction. Lastly, we look at MOSFET device characteristics and show how these devices are used to form basic CMOS logic gates such as NAND and NOR gates.
All New Electronics Self-Teaching Guide IGI Global
DDA Junior Engineer (Electrical/Mechanical) Exam: Mechanical Engineering Subject Ebook-PDFChandresh Agrawal
Evaluating Media Richness in Organizational Learning CRC Press
Explains the fundamental concepts of Newtonian mechanics, special relativity, waves, fluids, thermodynamics, and statistical mechanics. Provides an introduction for college-level students of physics, chemistry, and engineering, for AP Physics students, and for general readers interested in advances in the sciences. In volume II, Shankar explains essential concepts, including electromagnetism, optics, and quantum mechanics. The book begins at the simplest level, develops the basics, and reinforces fundamentals, ensuring a solid foundation in the principles and methods of physics.
Five Days Cengage Learning
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 ...

Pump Operator cum Mechanic MCQ Creativity Innovation eBook

Covering attack detection, malware response, algorithm and mechanism design, privacy, and risk management, this comprehensive work applies unique quantitative models derived from decision, control, and game theories to understanding diverse network security problems. It provides the reader with a system-level theoretical understanding of network security, and is essential reading for researchers interested in a quantitative approach to key incentive and resource allocation issues in the field. It also provides practitioners with an analytical foundation that is useful for formalising decision-making processes in network security.

Electrical Engineering for Non-Electrical Engineers, Second Edition John Wiley & Sons

Plant Hazard Analysis and Safety Instrumentation Systems is the first book to combine coverage of these two integral aspects of running a chemical processing plant. It helps engineers from various disciplines learn how various analysis techniques, international standards, and instrumentation and controls provide layers of protection for basic process control systems, and how, as a result, overall system reliability, availability, dependability, and maintainability can be increased. This step-by-step guide takes readers through the development of safety instrumented systems, also including discussions on cost impact, basics of statistics, and reliability. Swapan Basu brings more than 35 years of industrial experience to this book, using practical examples to demonstrate concepts. Basu links between the SIS requirements and process hazard analysis in order to complete SIS lifecycle implementation and covers safety analysis and realization in control systems, with up-to-date descriptions of modern concepts, such as SIL, SIS, and Fault Tolerance to name a few. In addition, the book addresses security issues that are particularly important for the programmable systems in modern plants, and discusses, at length, hazardous atmospheres and their impact on electrical enclosures and the use of IS circuits. Helps the reader identify which hazard analysis method is the most appropriate (covers ALARP, HAZOP, FMEA, LOPA) Provides tactics on how to implement standards, such as IEC 61508/61511 and ANSI/ISA 84 Presents information on how to conduct safety analysis and realization in control systems and safety instrumentation

Electrical Measurement, Signal Processing, and Displays Springer Science & Business Media

Introduction to Microwave Remote Sensing offers an extensive overview of this versatile and extremely precise technology for technically oriented undergraduates and graduate students. This textbook emphasizes an important shift in conceptualization and directs it toward students with prior knowledge of optical remote sensing: the author dispels any linkage between microwave and optical remote sensing. Instead, he constructs the concept of microwave remote sensing by comparing it to the process of audio perception, explaining the workings of the ear as a metaphor for microwave instrumentation. This volume takes an “ application-driven ” approach. Instead of describing the technology and then its uses, this textbook justifies the need for measurement then explains how microwave technology addresses this need. Following a brief summary of the field and a history of the use of microwaves, the book explores the physical properties of microwaves and the polarimetric properties of electromagnetic waves. It examines the interaction of microwaves with matter, analyzes passive atmospheric and passive surface measurements, and describes the operation of altimeters and scatterometers. The textbook concludes by explaining how high resolution images are created using radars, and how techniques of interferometry can be applied to both passive and active sensors.

DDA Junior Engineer (Electrical/Mechanical) Exam: Mechanical Engineering Subject Ebook-PDF McGraw-Hill Higher Education

Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and his world-renowned colleague Thad Roppel, Fundamentals of Electrical Engineering provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.

Technical Career Survival Handbook Academic Press

Electronics Mechanic First Year MCQ is a simple Book for ITI & Engineering Course Electronics Mechanic First Year, Revised NSQF Syllabus, It contains objective questions with underlined & bold correct answers MCQ covering all topics including all about the latest & Important about safety and environment, use of fire extinguishers, artificial respiratory resuscitation to begin with. He gets the idea of trade tools & its standardization, Familiarize with basics of electricity, test the cable and measure the electrical parameter. Skilling practice on different types & combination of cells for operation and maintenance of batteries being done. Identify and test passive and active electronic components. Construct and test unregulated and regulated power supplies. Practice soldering and de-soldering of various types of electrical and electronic components on through hole PCBs. Assemble a computer system, install OS, Practice with MS office. Use the internet, browse, create mail IDs, download desired data from internet using search engines. construct and test amplifier, oscillator and wave shaping circuits. Testing of power electronic components. Construct and test power control circuits. Identify and test opto electronic devices. Able to achieve the skill on SMD Soldering and De-soldering of discrete SMD components. Verifying the truth tables of various digital ICs by referring Data book. Practice circuit simulation software to simulate and test various circuits. Identify various types of LEDs, LED displays and interface them to a digital counter and test. Construct and test various circuits using linear ICs 741 & 555, and lots more.