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KEY=MR - KENNEDY FRANCIS

Stirling Engine Design Manual CreateSpace For Stirling engines to enjoy widespread application and acceptance, not only must the fundamental operation of such engines be widely understood, but the requisite analytic tools for the stimulation, design, evaluation and optimization of Stirling engine hardware must be readily available. The purpose of this design manual is to provide an introduction to Stirling cycle heat engines, to organize and identify the available Stirling engine literature, and to identify, organize, evaluate and, in so far as possible, compare non-proprietary Stirling engine design methodologies. This report was originally prepared for the National Aeronautics and Space Administration and the U. S. Department of Energy. IMS Customer Satisfaction BSI British Standards Institution Management, Management operations, Consumer-supplier relations, Consumers, Quality assurance systems, Performance Quality and Management Fanuc CNC Custom Macros Programming Resources for Fanuc Custom Macro B Users Industrial Press Inc. "CNC programmers and service technicians will find this book a very useful training and reference tool to use in a production environment. Also, it will provide the basis for exploring in great depth the extremely wide and rich field of programming tools that macros truly are."--BOOK JACKET. Vehicle Dynamics Theory and Application Springer Science & Business Media This textbook is appropriate for senior undergraduate and first year graduate students in mechanical and automotive engineering. The contents in this book are presented at a theoretical-practical level. It explains vehicle dynamics concepts in detail, concentrating on their practical use. Related theorems and formal proofs are provided, as are real-life applications. Students, researchers and practicing engineers alike will appreciate the user-friendly presentation of a wealth of topics, most notably steering, handling, ride, and related components. This book also: Illustrates all key concepts with examples Includes exercises for each chapter Covers front, rear, and four wheel steering systems, as well as the advantages and disadvantages of different steering schemes Includes an emphasis on design throughout the text, which provides a practical, hands-on approach Fundamentals of Nuclear Science and Engineering Second Edition CRC Press Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of Fundamentals of Nuclear Science and Engineering is a key reference for any physicists or engineer. Proceedings of the 23rd International Conference on Industrial Engineering and Engineering Management 2016 Theory and Application of Industrial Engineering Springer International Conference on Industrial Engineering and Engineering Management is sponsored by Chinese Industrial Engineering Institution, CMES, which is the unique national-level academic society of Industrial Engineering. The conference is held annually as the major event in this area. Being the largest and the most authoritative international academic conference held in China, it supplies an academic platform for the experts and the entrepreneurs in International Industrial Engineering and Management area to exchange their research results. Many experts in various fields from China and foreign countries gather together in the conference to review, exchange, summarize and promote their achievements in Industrial Engineering and Engineering Management fields. Some experts pay special attention to the current situation of the related techniques application in China as well as their future prospect, such as Industry 4.0, Green Product Design, Quality Control and Management, Supply Chain and logistics Management to cater for the purpose of low-carbon, energy-saving and emission-reduction and so on. They also come up with their assumption and outlook about the related techniques' development. The proceedings will offer theatrical methods and technique application cases for experts from college and university, research institution and enterprises who are engaged in theoretical research of Industrial Engineering and Engineering Management and its technique's application in China. As all the papers are feathered by higher level of academic and application value, they also provide research data for foreign scholars who occupy themselves in investigating the enterprises and engineering management of Chinese style. National Electrical Code Cengage Learning Safe, efficient, code-compliant electrical installations are made simple with the latest publication of this widely popular resource. Like its highly successful previous editions, the National Electrical Code 2011 spiral bound version combines solid, thorough, research-based content with the tools you need to build an in-depth understanding of the most important topics. New to the 2011 edition are articles including first-time Article 399 on Outdoor, Overhead Conductors with over 600 volts, first-time Article 694 on Small Wind Electric Systems, first-time Article 840 on Premises Powered Broadband Communications Systems, and more. This spiralbound version allows users to open the code to a certain page and easily keep the book open while referencing that page. The National Electrical Code is adopted in all 50 states, and is an essential reference for those in or entering careers in electrical design, installation, inspection, and safety. Marine Propellers and Propulsion Butterworth-Heinemann The early development of the screw propeller. Propeller geometry. The propeller environment. The ship wake field, propeller performance characteristics. Manual for Assessing Safety Hardware, 2009 AASHTO Design and Modeling of Mechanical Systems—III Proceedings of the 7th Conference on Design and Modeling of Mechanical Systems, CMSM'2017, March 27-29, Hammamet, Tunisia Springer This book offers a collection of original peer-reviewed contributions presented at the 7th International Congress on Design and Modeling of Mechanical Systems (CMSM'2017), held in Hammamet, Tunisia, from the 27th to the 29th of March 2017. It reports on both research findings, innovative industrial applications and case studies concerning mechanical systems and related to modeling and analysis of materials and structures, multiphysics methods, nonlinear dynamics, fluid structure interaction and vibroacoustics, design and manufacturing engineering. Continuing on the tradition of the previous editions, this proceedings offers a broad overview on the state-of-the art in the field and a useful resource for academic and industry specialists active in the field of design and modeling of mechanical systems. CMSM'2017 was jointly organized by two leading Tunisian research laboratories: the Mechanical, Modeling and Manufacturing Laboratory of the National Engineering School of Sfax and the Mechanical Engineering Laboratory of the National Engineering School of Monastir.. Theory and Design of CNC Systems Springer Science & Business Media Computer Numerical Control (CNC) controllers are high value-added products counting for over 30% of the price of machine tools. The development of CNC technology depends on the integration of technologies from many different industries, and requires strategic long-term support. "Theory and Design of CNC Systems" covers the elements of control, the design of control systems, and modern open-architecture control systems. Topics covered include Numerical Control Kernel (NCK) design of CNC, Programmable Logic Control (PLC), and the Man-Machine Interface (MMI), as well as the major modules for the development of conversational programming methods. The concepts and primary elements of STEP-NC are also introduced. A collaboration of several authors with considerable experience in CNC development, education, and research, this highly focused textbook on the principles and development technologies of CNC controllers can also be used as a guide for those working on CNC development in industry. Essays In Decision Making A Volume in Honour of Stanley Zions Springer Science & Business Media The pioneering study by Bowman [1980] reawakened interest in risk and return relations in the strategic management literature. We do not examine this literature here because we have elsewhere reviewed it in detail 1 and because, for the most part, these studies have been confined to ex post data. Discussions of the strategies which subjects used to direct their ex ante evaluations of risks and returns have either been omitted or else have been only indirectly inferred from ex post data. In addition, with few exceptions, this literature does not attempt to ascertain the meanings that might have been assigned by subjects to terms like "risk" and/or the "returns" with which they have been concerned. Even fewer of these studies have attempted to ascertain how the subjects implemented their definitions en of prospective strategies. Thus, this literature may route to arriving at evaluations best be regarded as bearing only indirect relations to the present study which is concerned not only with the meanings assigned to terms like "risk" and "return" but also with how these terms are used in arriving at risk and return evaluations of proposed strategies as well as how they are measured and used, on an ex ante basis en route to seeing how these evaluations match with ex post performance. In a sense, one part of this study--i. e. Modified Atmosphere Packaging of Food Springer Science & Business Media At the 50th Anniversary Meeting of the Institute of Food Technologists the ten most significant innovations in food science developed during the past 50 years were named (Food Technology, September 1989). Among the "Top 10" innovations, controlled atmosphere packaging (CAP) for fruits and vegetables was listed 5th in order of importance. Of course, CAP is a forerunner of MAP (modified atmosphere packaging) in which a variety of food products are packaged under selective mixtures of atmospheric gases, but without the on-going maintenance (control) of the gas mixture. Development of packaging systems and films that are selectively permeable to specific gases has been the key element in the commercialization of controlled and modified atmosphere packaging of foods. It may not be far from the truth to say that since then there has been an explosion of activities around MAP/CAP, especially in research and development into various aspects of this technology. The application of MAP to some bakery products, fresh fruits and salads and fresh meats and meat products has reached a significant level both in Europe and North America. The increasing consumer demand for fresh or near-fresh products and convenient, microwavable foods has added impetus to the growth of MAP/CAP technology. It is, therefore, timely that a comprehensive book that provides scientific background and practical applications of the technology should be written. Handbook of Knowledge Representation Elsevier Handbook of Knowledge Representation describes the essential foundations of Knowledge Representation, which lies at the core of Artificial Intelligence (AI). The book provides an up-to-date review of twenty-five key topics in knowledge representation, written by the leaders of each field. It includes a tutorial background and cutting-edge developments, as well as applications of Knowledge Representation in a variety of AI systems. This handbook is organized into three parts. Part I deals with general methods in Knowledge Representation and reasoning and covers such topics as classical logic in Knowledge Representation; satisfiability solvers; description logics; constraint programming; conceptual graphs; nonmonotonic reasoning; model-based problem solving; and Bayesian networks. Part II focuses on classes of knowledge and specialized representations, with chapters on temporal representation and reasoning; spatial and physical reasoning; reasoning about knowledge and belief; temporal action logics; and nonmonotonic causal logic. Part III discusses Knowledge Representation in applications such as question answering; the semantic web; automated planning; cognitive robotics; multi-agent systems; and knowledge engineering. This book is an essential resource for graduate students, researchers, and practitioners in knowledge representation and AI. * Make your computer smarter * Handle qualitative and uncertain information * Improve computational tractability to solve your problems easily Enter the Animal Cross-species perspectives on grief and spirituality Sydney University Press Historically, grief and spirituality have been

jealously guarded as uniquely human experiences. Although non-human animal grief has been acknowledged in recent times, its potency has not been recognised as equal to human grief. Anthropocentric philosophical questions still underpin both academic and popular discussions. In *Enter the Animal*, Teya Brooks Pribac examines what we do and don't know about grief and spirituality. She explores the growing body of knowledge about attachment and loss and how they shape the lives of both human and non-human animals. A valuable addition to the vibrant interdisciplinary conversation about animal subjectivity, *Enter the Animal* identifies conceptual and methodological approaches that have contributed to the prejudice against nonhuman animals. It offers a compelling theoretical base for the consideration of grief and spirituality across species and highlights important ethical implications for how humans treat other animals. *Exploring Translation and Multilingual Text Production Beyond Content* Walter de Gruyter The series serves to propagate investigations into language usage, especially with respect to computational support. This includes all forms of text handling activity, not only interlingual translations, but also conversions carried out in response to different communicative tasks. Among the major topics are problems of text transfer and the interplay between human and machine activities. *Peterson's Stress Concentration Factors* John Wiley & Sons The bible of stress concentration factors—updated to reflect today's advances in stress analysis This book establishes and maintains a system of data classification for all the applications of stress and strain analysis, and expedites their synthesis into CAD applications. Filled with all of the latest developments in stress and strain analysis, this Fourth Edition presents stress concentration factors both graphically and with formulas, and the illustrated index allows readers to identify structures and shapes of interest based on the geometry and loading of the location of a stress concentration factor. *Peterson's Stress Concentration Factors, Fourth Edition* includes a thorough introduction of the theory and methods for static and fatigue design, quantification of stress and strain, research on stress concentration factors for weld joints and composite materials, and a new introduction to the systematic stress analysis approach using Finite Element Analysis (FEA). From notches and grooves to shoulder fillets and holes, readers will learn everything they need to know about stress concentration in one single volume. *Peterson's* is the practitioner's go-to stress concentration factors reference Includes completely revised introductory chapters on fundamentals of stress analysis; miscellaneous design elements; finite element analysis (FEA) for stress analysis Features new research on stress concentration factors related to weld joints and composite materials Takes a deep dive into the theory and methods for material characterization, quantification and analysis methods of stress and strain, and static and fatigue design *Peterson's Stress Concentration Factors* is an excellent book for all mechanical, civil, and structural engineers, and for all engineering students and researchers. *Fundamentals of Aircraft and Rocket Propulsion* Springer This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. *Fundamentals of Aircraft and Rocket Propulsion* provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions manual will be of further benefit for course instructors. *The Global Positioning System Assessing National Policies* Rand Corporation A comprehensive assessment of the challenges and opportunities created by worldwide access to this revolutionary technology. *Mechanism and Machine Science Select Proceedings of Asian MMS 2018* Springer Nature This volume presents select papers from the Asian Conference on Mechanism and Machine Science 2018. This conference includes contributions from both academic and industry researchers and will be of interest to scientists and students working in the field of mechanism and machine science. *Robotics and Automation Handbook* CRC Press As the capability and utility of robots has increased dramatically with new technology, robotic systems can perform tasks that are physically dangerous for humans, repetitive in nature, or require increased accuracy, precision, and sterile conditions to radically minimize human error. The *Robotics and Automation Handbook* addresses the major aspects of designing, fabricating, and enabling robotic systems and their various applications. It presents kinetic and dynamic methods for analyzing robotic systems, considering factors such as force and torque. From these analyses, the book develops several controls approaches, including servo actuation, hybrid control, and trajectory planning. Design aspects include determining specifications for a robot, determining its configuration, and utilizing sensors and actuators. The featured applications focus on how the specific difficulties are overcome in the development of the robotic system. With the ability to increase human safety and precision in applications ranging from handling hazardous materials and exploring extreme environments to manufacturing and medicine, the uses for robots are growing steadily. The *Robotics and Automation Handbook* provides a solid foundation for engineers and scientists interested in designing, fabricating, or utilizing robotic systems. *Principles and Applications of Modified Atmosphere Packaging of Foods* Springer Science & Business Media Modified atmosphere packaging may be defined as an active packaging method in which an altered atmosphere is created in the headspace that retards chemical deterioration while simultaneously retarding growth of spoilage organisms. Shelf lives of perishable products, such as dairy products, meat, poultry, fish, fruits and vegetables, and bakery items are limited by biochemical changes in the product catalysed by exposure to the normal atmosphere (21 % oxygen, 78% nitrogen and less than 0.1 % carbon dioxide) and growth of spoilage organisms. Modification of the atmosphere within a package containing these products helps to better maintain the quality of the food under longer storage conditions and retards the growth of undesirable organisms. Of course, deterioration is also slowed by chilling, which is required for the transport to market of highly perishable items like meat, poultry and fish that would either spoil or have the potential for contamination by certain food pathogens. Chilling plus a modification of the atmosphere optimizes the keeping quality of food. Modification of the atmosphere has been known for over a century as a means of food preservation and has become a very popular means of food preservation in the latter part of the 20th century. Modified atmosphere packaging (MAP) is practised extensively in Europe, Canada and the USo Both vacuum packaging (removal of air from the package) and addition of gases within the package are considered MAP. *Hard Drive Bible THE HARD DRIVE BIBLE, EIGHTH EDITION* is the definitive reference book for anyone who deals with personal computer data storage devices of any kind. This comprehensive work covers installations, drive parameters, & set up information for thousands of Hard Disk, Optical, DAT Tape, & CD-ROM Drives. A concise history of data storage devices is followed by the most expansive compilation of technical data offered to the public today. Specifications, drawings, charts & photos cover jumper settings, cabling, partitioning & formatting of disk drives. SCSI commands & protocols are addressed, in addition to chapters revealing the intricacies of different interface standards & common troubleshooting procedures. *THE HARD DRIVE BIBLE* contains the answers to anyone's questions concerning the purchase, installation & use of modern digital data storage devices. The difficulties caused by compatibility mismatches are addressed & solutions are offered. Also featured are controller card information & performance ratings, as well as valuable tips on increasing drive performance & reliability through software. *THE HARD DRIVE BIBLE* is published by Corporate Systems Center, one of the leaders in the digital storage device field. A CD-ROM included with the book carries CSC's drive performance test software & formatting tools, as well as thousands of drive parameters, specifications, & technical drawings. To order contact: Corporate Systems Center, 1294 Hammerwood Avenue, Sunnyvale, CA 94089; 408-743-8787. *Space Antenna Handbook* John Wiley & Sons This book addresses a broad range of topics on antennas for space applications. First, it introduces the fundamental methodologies of space antenna design, modelling and analysis as well as the state-of-the-art and anticipated future technological developments. Each of the topics discussed are specialized and contextualized to the space sector. Furthermore, case studies are also provided to demonstrate the design and implementation of antennas in actual applications. Second, the authors present a detailed review of antenna designs for some popular applications such as satellite communications, space-borne synthetic aperture radar (SAR), Global Navigation Satellite Systems (GNSS) receivers, science instruments, radio astronomy, small satellites, and deep-space applications. Finally it presents the reader with a comprehensive path from space antenna development basics to specific individual applications. **Key Features:** Presents a detailed review of antenna designs for applications such as satellite communications, space-borne SAR, GNSS receivers, science instruments, small satellites, radio astronomy, deep-space applications Addresses the space antenna development from different angles, including electromagnetic, thermal and mechanical design strategies required for space qualification Includes numerous case studies to demonstrate how to design and implement antennas in practical scenarios Offers both an introduction for students in the field and an in-depth reference for antenna engineers who develop space antennas This book serves as an excellent reference for researchers, professionals and graduate students in the fields of antennas and propagation, electromagnetics, RF/microwave/millimetrewave systems, satellite communications, radars, satellite remote sensing, satellite navigation and spacecraft system engineering, It also aids engineers technical managers and professionals working on antenna and RF designs. Marketing and business people in satellites, wireless, and electronics area who want to acquire a basic understanding of the technology will also find this book of interest. *Asian Business Networks* Walter de Gruyter *Handbook of Energy Efficiency and Renewable Energy* CRC Press Brought to you by the creator of numerous bestselling handbooks, the *Handbook of Energy Efficiency and Renewable Energy* provides a thorough grounding in the analytic techniques and technological developments that underpin renewable energy use and environmental protection. The handbook emphasizes the engineering aspects of energy conservation and renewable energy. Taking a world view, the editors discuss key topics underpinning energy efficiency and renewable energy systems. They provide content at the forefront of the contemporary debate about energy and environmental futures. This is vital information for planning a secure energy future. Practical in approach, the book covers technologies currently available or expected to be ready for implementation in the near future. It sets the stage with a survey of current and future world-wide energy issues, then explores energy policies and incentives for conservation and renewable energy, covers economic assessment methods for conservation and generation technologies, and discusses the environmental costs of various energy generation technologies. The book goes on to examine distributed generation and demand side management procedures and gives a perspective on the efficiencies, economics, and environmental costs of fossil and nuclear technologies. Highlighting energy conservation as the cornerstone of a successful national energy strategy, the book covers energy management strategies for industry and buildings, HVAC controls, co-generation, and advances in specific technologies such as motors, lighting, appliances, and heat pumps. It explores energy storage and generation from renewable sources and underlines the role of infrastructure security and risk analysis in planning future energy transmission and storage systems. These features and more make the *Handbook of Energy Efficiency and Renewable Energy* the tool for designing the energy sources of the future. *Radiological Safety Aspects of the Operation of Electron Linear Accelerators* Bernan Press(PA) Electron linear accelerators are being used throughout the world in increasing numbers in a variety of important applications. Foremost among these is their role in the treatment of cancer. Commercial uses include non-destructive testing by radiography, food preservation, product sterilization and radiation processing of materials such as plastics and adhesives. Scientific applications include investigations in radiation biology, radiation chemistry, nuclear and elementary particle physics and radiation research. This manual provides authoritative guidance in radiation protection for this important category of radiation sources. *The PC Engineer's Reference Book* Sigma Press *Recent Trends in Fuel Cell Science and Technology* Springer Science & Business Media This book covers all the proposed fuel cell systems including PEMFC, SOFC, PAFC, MCFC, regenerative fuel cells, direct alcohol fuel cells, and small fuel cells to replace batteries. *Introduction to Programmable Logic Controllers* The Mitsubishi FX Butterworth-Heinemann The aim of this book is to provide the engineering technician with a sound working knowledge of PLC operation, with a minimum of unnecessary theoretical background. Particularly suitable for BTEC students. *Social Origins of Dictatorship and Democracy* Lord and Peasant in the Making of the Modern World Beacon Press A landmark in comparative history and a challenge to scholars of all lands who are trying to learn how we arrived at where we are now. -New York Times Book Review *Modern Methods in Sunday-School Work: The New Evangelism* Wentworth 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 was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. 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. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Music Engineering Elsevier Music Engineering is a hands-on guide to the practical aspects of electric and electronic music. It is both a compelling read and an essential reference guide for anyone using, choosing, designing or studying the technology of modern music. The technology and underpinning science are introduced through the real life demands of playing and recording, and illustrated with references to well known classic recordings to show how a particular effect is obtained thanks to the ingenuity of the engineer as well as the musician. Written by a music enthusiast and electronic engineer, this book covers the electronics and physics of the subject as well as the more subjective aspects. The second edition includes an updated Digital section including MPEG3 and fact sheets at the end of each chapter to summarise the key electronics and science. In addition to instruments and recording technology, this book covers essential kit such as microphones, sequencers, amplifiers and loudspeakers. Discover the potential of electronics and computers to transform your performances and recordings Develop an understanding of the engineering behind state of the art instruments, amplifiers and recording equipment Correlation Risk Modeling and Management An Applied Guide including the Basel III Correlation Framework - With Interactive Models in Excel / VBA John Wiley & Sons A thorough guide to correlation risk and its growing importance in global financial markets Ideal for anyone studying for CFA, PRMIA, CAIA, or other certifications, Correlation Risk Modeling and Management is the first rigorous guide to the topic of correlation risk. A relatively overlooked type of risk until it caused major unexpected losses during the financial crisis of 2007 through 2009, correlation risk has become a major focus of the risk management departments in major financial institutions, particularly since Basel III specifically addressed correlation risk with new regulations. This offers a rigorous explanation of the topic, revealing new and updated approaches to modelling and risk managing correlation risk. Offers comprehensive coverage of a topic of increasing importance in the financial world Includes the Basel III correlation framework Features interactive models in Excel/VBA, an accompanying website with further materials, and problems and questions at the end of each chapter Imperial Brain Trust iUniverse Power Conversion and Control of Wind Energy Systems John Wiley & Sons The book presents the latest power conversion and control technology in modern wind energy systems. It has nine chapters, covering technology overview and market survey, electric generators and modeling, power converters and modulation techniques, wind turbine characteristics and configurations, and control schemes for fixed- and variable-speed wind energy systems. The book also provides in-depth steady-state and dynamic analysis of squirrel cage induction generator, doubly fed induction generator, and synchronous generator based wind energy systems. To illustrate the key concepts and help the reader tackle real-world issues, the book contains more than 30 case studies and 100 solved problems in addition to simulations and experiments. The book serves as a comprehensive reference for academic researchers and practicing engineers. It can also be used as a textbook for graduate students and final year undergraduate students. Instrumentation and Control Systems Elsevier In a clear and readable style, Bill Bolton addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, Bill Bolton combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. An introduction to PLCs and ladder programming is incorporated in the text, as well as new information introducing the various software programmes used for simulation. Problems with a full answer section are also included, to aid the reader's self-assessment and learning, and a companion website (for lecturers only) at <http://textbooks.elsevier.com> features an Instructor's Manual including multiple choice questions, further assignments with detailed solutions, as well as additional teaching resources. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel. * Assumes minimal prior mathematical knowledge, creating a highly accessible student-centred text * Problems, case studies and applications included throughout, with a full set of answers at the back of the book, to aid student learning, and place theory in real-world engineering contexts * Free online lecturer resources featuring supporting notes, multiple-choice tests, lecturer handouts and further assignments and solutions Change in Marine Communities An Approach to Statistical Analysis and Interpretation Transnational Japan in the Global Environmental Movement What motivates people to become involved in issues and struggles beyond their own borders? How are activists changed and movements transformed when they reach out to others a world away? This adept study addresses these questions by tying together local, national, regional, and global historical narratives surrounding the contemporary Japanese environmental movement. Spanning the era of Japanese industrial pollution in the 1960s and the more recent rise of movements addressing global environmental problems, it shows how Japanese activists influenced approaches to environmentalism and industrial pollution in the Asia-Pacific region, North America, and Europe, as well as landmark United Nations conferences in 1972 and 1992. Japan's experiences with diseases caused by industrial pollution produced a potent "environmental injustice paradigm" that fueled domestic protest and became the motivation for Japanese groups' activism abroad. From the late 1960s onward Japanese activists organized transnational movements addressing mercury contamination in Europe and North America, industrial pollution throughout East Asia, radioactive waste disposal in the Pacific, and global climate change. In all cases, they advocated strongly for the rights of pollution victims and people living in marginalized communities and nations--a position that often put them at odds with those advocating for the global environment over local or national rights. Transnational involvement profoundly challenged Japanese groups' understanding of and approach to activism. Numerous case studies demonstrate how border-crossing efforts undermined deeply engrained notions of victimhood in the domestic movement and nurtured a more self-reflexive and multidimensional approach to environmental problems and social activism. Transnational Japan in the Global Environmental Movement will appeal to scholars and students interested in the development of civil society, social movements, and environmentalism in contemporary Japan; grassroots inter-Asian connections in the postwar period; and the ways Asian countries and their citizens have shaped and been influenced by global issues like environmentalism. ASHRAE Handbook Fundamentals 2017 Inch-Pound Edition