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KEY=SYSTEM - GRAHAM LIVINGSTON

Fundamentals of Power System Protection

PHI Learning Pvt. Ltd.

DIGITAL POWER SYSTEM PROTECTION

PHI Learning Pvt. Ltd. **Digital power system protection, as a subject, offers the use of computers in power line relaying which is the act of automatically controlling the power system via instrumentation and control devices. This book is an attempt to make a gentle introduction to the nitty-gritty of digital relays. Written in a simple, clear and student-friendly style, this text covers basics of digital processing of analog signals for the purpose of relaying. All important basic algorithms that are used in various types of digital relays have been explained. FIR and IIR filters have been presented in such a manner that students will be able to develop intuitive understanding. The book also covers DFT and FFT and synchrophasor technology in details. MATLAB programs and Excel simulations have been given to reinforce the comprehension of the algorithms. This book has been thoroughly class-room tested and based on course notes which is primarily intended for undergraduate and postgraduate students of electrical engineering. Key Features • In-depth coverage of DSP fundamentals • Pedagogical tools like figures, flowcharts, block diagrams and tables have been extensively used • Review questions are given at the end of each chapter • Extensive references to literature on power system protection**

The Origin and Evolution of New Businesses

Oxford University Press **Few would deny the crucial role that entrepreneurs play in our increasingly global economy-but exactly what is this vital, yet loosely defined business force we call the entrepreneurial spirit? This landmark study is the first to examine analytically the nature of the opportunities that entrepreneurs pursue, the problems they face, the traits they require, and the social and economic contributions they make. Until recently, entrepreneurs have been largely ignored in modern economic theory. But at the dawn of a networked age, marked by the advent of e-business and the home office, there's no question that entrepreneurs have recaptured the popular imagination. Studies now show that most men and women dream of starting their own businesses rather than rising through the corporate ranks. Yet in spite of increased attention by many of today's leading business schools, entrepreneurship has remained largely a mystery, an apparently intuitive sense of values possessed by certain individuals.; This book targets the issues central to successful start-up ventures, such as endowments and opportunities, planning versus adaptation, securing resources, corporate initiatives, venture capital, revolutionary ventures and the evolution of fledgling businesses. Focusing on hard data and evaluations of numerous start-up businesses, including many of today's major industry leaders, this book presents a new economic model-a key to understanding the guts, determination, luck and skills that constitute the underpinnings of corporate success. Written in clear, concise prose, The Origin and Evolution of New Businesses goes behind the charts and graphs of business theory to the true heart of success. It is essential reading for business students, would-be entrepreneurs, or executives wanting to incorporate the vitality of the entrepreneurial spirit into their organization.**

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

Poverty, Chronic Poverty and Poverty Dynamics

Policy Imperatives

Springer This book discusses critical policy issues that need to be addressed if India wishes to achieve the SDG 1 based elusive goal of ending poverty in the country. In its nine chapters, it takes the readers through trends and estimates of poverty in India, explains changes in the way it has been measured over time and the factors that lead to persistence of poverty, draws attention to the fact that hunger is both a cause and an effect of poverty and has gender and age dimensions too. The book revisits strategies that were successful in addressing poverty emanating from situations of conflict, presents a discussion on migration as a critical coping mechanism among poor, analyses the links between ill health and poverty as well as education and poverty to draw attention to the policy imperatives that need attention. India's report card on poverty remains dismal even though there is recognition of the importance of reducing or eliminating or ending it at both national and global levels. Despite rapid economic growth and improvement on a range of development indicators, an unacceptably high proportion of India's population continues to suffer poverty in multiple dimensions. SDG 1 or "ending poverty in all its forms everywhere" cannot be achieved unless policies and poverty alleviation programmes understand and address chronic poverty and its dynamics. This requires that we estimate and understand the extent of poverty, the factors that lead to people getting stuck in it and the ways this can be addressed. It also requires understanding the dynamic nature of poverty or the fact that many of those who are poor are able to move out of poverty as well as the fact that many others who are not poor become impoverished. These are the issues that are comprehensively examined and addressed in this book. In addition to students, teachers and researchers in the areas of development, economic growth, equity and welfare, the book is also of great interest to policy makers, planners and non-government agencies who are concerned with understanding and addressing poverty-related issues in the developing countries.

Protective Relaying

Principles and Applications, Fourth Edition

CRC Press For many years, **Protective Relaying: Principles and Applications** has been the go-to text for gaining proficiency in the technological fundamentals of power system protection. Continuing in the bestselling tradition of the previous editions by the late J. Lewis Blackburn, the Fourth Edition retains the core concepts at the heart of power system analysis. Featuring refinements and additions to accommodate recent technological progress, the text: Explores developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid Examines the regulations related to power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes Contains an expanded discussion of intertie protection requirements at dispersed generation facilities Providing information on a mixture of old and new equipment, **Protective Relaying: Principles and Applications, Fourth Edition** reflects the present state of power systems currently in operation, making it a handy reference for practicing protection engineers. And yet its challenging end-of-chapter problems, coverage of the basic mathematical requirements for fault analysis, and real-world examples ensure engineering students receive a practical, effective education on protective systems. Plus, with the inclusion of a solutions manual and figure slides with qualifying course adoption, the Fourth Edition is ready-made for classroom implementation.

Multiple Pregnancy- E-book

Recent Advances in Management of Multiple Pregnancy

Elsevier Health Sciences The incidence of multiple pregnancies has increased with the increasing use of assisted reproductive techniques. This super-specialty title intends to cover basic epidemiology, associated complications and management of multiple pregnancy. The aim of this book is to provide a comprehensive, up to date and an evidenced-based discussion of multiple pregnancy and recent advances in its management. The chapters are divided in such a way that all three trimesters are discussed separately with all the relevant details. Pedagogical features like learning objectives, key learning points, text in highlighted boxes throughout the chapters provide the essential knowledge. Ideal for postgraduate students - MS and DNB, practitioner segment in obstetrics and gynaecology

Control Systems (As Per Latest Jntu Syllabus)

New Age International Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

The Venturesome Economy

How Innovation Sustains Prosperity in a More Connected World

Princeton University Press Many warn that the next stage of globalization--the offshoring of research and development to China and India--threatens the foundations of Western prosperity. But in **The Venturesome Economy**, acclaimed business and economics scholar Amar Bhide shows how wrong the doomsayers are. Using extensive field studies on venture-capital-backed businesses to examine how technology really advances in modern economies, Bhide explains why know-how developed abroad enhances--not diminishes--prosperity at home, and why trying to maintain the U.S. lead by subsidizing more research or training more scientists will do more harm than good. When breakthrough ideas have no borders, a nation's capacity to exploit cutting-edge research regardless of where it originates is crucial: "venturesome consumption"--the willingness and ability of businesses and consumers to effectively use products and technologies derived from scientific research--is far more important than having a share of such research. In fact, a venturesome

economy benefits from an increase in research produced abroad: the success of Apple's iPod, for instance, owes much to technologies developed in Asia and Europe. Many players--entrepreneurs, managers, financiers, salespersons, consumers, and not just a few brilliant scientists and engineers--have kept the United States at the forefront of the innovation game. As long as their venturesome spirit remains alive and well, advances abroad need not be feared. Read *The Venturesome Economy* and learn why--and see how we can keep it that way.

Physiological Control Systems

Analysis, Simulation, and Estimation

John Wiley & Sons A guide to common control principles and how they are used to characterize a variety of physiological mechanisms The second edition of *Physiological Control Systems* offers an updated and comprehensive resource that reviews the fundamental concepts of classical control theory and how engineering methodology can be applied to obtain a quantitative understanding of physiological systems. The revised text also contains more advanced topics that feature applications to physiology of nonlinear dynamics, parameter estimation methods, and adaptive estimation and control. The author—a noted expert in the field—includes a wealth of worked examples that illustrate key concepts and methodology and offers in-depth analyses of selected physiological control models that highlight the topics presented. The author discusses the most noteworthy developments in system identification, optimal control, and nonlinear dynamical analysis and targets recent bioengineering advances. Designed to be a practical resource, the text includes guided experiments with simulation models (using Simulink/Matlab). *Physiological Control Systems* focuses on common control principles that can be used to characterize a broad variety of physiological mechanisms. This revised resource: Offers new sections that explore identification of nonlinear and time-varying systems, and provide the background for understanding the link between continuous-time and discrete-time dynamic models Presents helpful, hands-on experimentation with computer simulation models Contains fully updated problems and exercises at the end of each chapter Written for biomedical engineering students and biomedical scientists, *Physiological Control Systems*, offers an updated edition of this key resource for understanding classical control theory and its application to physiological systems. It also contains contemporary topics and methodologies that shape bioengineering research today.

Computer-Based Industrial Control, 2/e

PHI Learning Pvt. Ltd.

Urban Parallax

Policy and the City in Contemporary India

Urban policy, and particularly, the knowledge base and fundamental assumptions behind the same have rarely been the subject of scholarship in India. As the urban becomes a significant phenomenon in India, however, several fundamental questions need to be debated as a guide to policy. *Urban Parallax* fills this lacuna by deconstructing urban policy and asking some critical questions about knowledge of the urban and of policy from multiple perspectives. Economists, sociologists, geographers, planners, and architects provide insight in this timely volume to foundational premises such as the relationship between urbanization and growth, its relationship with inequality, issues of centralization vs decentralization, the issue of differing scales of policy application, and when does policy seem to work and not work. An authoritative book by specialists, and yet accessible to every informed reader, this book will be of interest to policymakers, urban practitioners, scholars and students of urban studies and anthropology, as well as every concerned citizen of the Indian city--back cover.

Digital Entrepreneurship

Impact on Business and Society

Springer Nature This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work." Gina O'Connor, Professor of Innovation Management at Babson College, USA "This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique "must-read" book because it goes beyond theory and provides practical examples." Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures." Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany

Smart Cities in Asia

Governing Development in the Era of Hyper-Connectivity

Edward Elgar Publishing At a time when Asia is rapidly growing in global influence, this much-needed and insightful book bridges two major current policy topics in order to offer a unique study of the latest smart city archetypes emerging throughout Asia. Highlighting the smart city aspirations of Asian countries and their role in Asian governments' new development strategies, this book draws out timely narratives and insights from a uniquely Asian context and policymaking space.

International Corporate Finance, + Website

Value Creation with Currency Derivatives in Global Capital Markets

John Wiley & Sons A thorough introduction to corporate finance from a renowned professor of finance and banking As globalization redefines the field of corporate finance, international and domestic finance have become almost inseparably intertwined. It's increasingly difficult to understand what is happening in capital markets without a firm grasp of currency markets, the investment strategies of sovereign wealth funds, carry trade, and foreign exchange derivatives products. International Corporate Finance offers thorough coverage of the international monetary climate, including Islamic finance, Asian banking, and cross-border mergers and acquisitions. Additionally, the book offers keen insight on global capital markets, equity markets, and bond markets, as well as foreign exchange risk management and how to forecast exchange rates. Offers a comprehensive discussion of the current state of international corporate finance Provides simple rules and pragmatic answers to key managerial questions and issues Includes case studies and real-world decision-making situations For anyone who wants to understand how finance works in today's hyper-connected global economy, International Corporate Finance is an insightful,

practical guide to this complex subject.

Data Analytics and Management

Proceedings of ICDAM

Springer Nature This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wyzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students.

Orthogeriatrics

Springer Nature This new open access edition supported by the Fragility Fracture Network aims at giving the widest possible dissemination on fragility fracture (especially hip fracture) management and notably in countries where this expertise is sorely needed. It has been extensively revised and updated by the experts of this network to provide a unique and reliable content in one single volume. Throughout the book, attention is given to the difficult question of how to provide best practice in countries where the discipline of geriatric medicine is not well established and resources for secondary prevention are scarce. The revised and updated chapters on the epidemiology of hip fractures, osteoporosis, sarcopenia, surgery, anaesthesia, medical management of frailty, peri-operative complications, rehabilitation and nursing are supplemented by six new chapters. These include an overview of the multidisciplinary approach to fragility fractures and new contributions on pre-hospital care, treatment in the emergency room, falls prevention, nutrition and systems for audit. The reader will have an exhaustive overview and will gain essential, practical knowledge on how best to manage fractures in elderly patients and how to develop clinical systems that do so reliably.

The Founder's Dilemmas

Anticipating and Avoiding the Pitfalls That Can Sink a Startup

Princeton University Press The Founder's Dilemmas examines how early decisions by entrepreneurs can make or break a startup and its team. Drawing on a decade of research, including quantitative data on almost ten thousand founders as well as inside stories of founders like Evan Williams of Twitter and Tim Westergren of Pandora, Noam Wasserman reveals the common pitfalls founders face and how to avoid them.

Cell-Free Synthetic Biology

MDPI Cell-free synthetic biology is in the spotlight as a powerful and rapid approach to characterize and engineer natural biological systems. The open nature of cell-free platforms brings an unprecedented level of control and freedom for design compared to in vivo systems. This versatile engineering toolkit is used for debugging biological networks, constructing artificial cells, screening protein library, prototyping genetic circuits, developing new drugs, producing metabolites, and synthesizing complex proteins including therapeutic proteins, toxic proteins, and novel proteins containing non-standard (unnatural) amino acids. The book consists of a series of reviews, protocols, benchmarks, and research articles describing the current development and applications of cell-free synthetic biology in diverse areas.

Handbook of e-Business Security

CRC Press There are a lot of e-business security concerns. Knowing about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-business is essential and important to business growth. This book covers state-of-the-art practices in e-business security, including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems.

Your First Dollar

Choose Your Market Build Your List Make Your First Dollar Inside

Createspace Independent Publishing Platform Here's How to Make Your First Dollar in 30 Days and Your First \$100,000 Inside of 12 Months... You already know you want to start an online business. You may have already tried, but something never clicks. Juggling a day job while you build your dream life can just be too difficult. That's where Ed Dale and his book, *Your First Dollar*, comes in. In his book, Ed discusses how he can help you crack the code by installing an 'operating system for the entrepreneur' to get you the freedom of a successful online business in three easy steps. Step 1: Learn how you can understand what type of entrepreneur you are, so creating your business becomes effortless. Step 2: Discover how to figure out which market you'd love to work in and help unlock the formula to having people want to work with you. Step 3: You'll learn how to quickly to build your list and gather your tribe before guiding you to build an offer, product and services your tribe will love. Most entrepreneurs quit their online business right before they're successful because they don't recognize their flawed operating system. Now it's time to get cracking and order your copy of *Your First Dollar* today!

The Innovator's Cookbook

Essentials for Inventing What Is Next

Penguin From the New York Times bestselling author of *How We Got To Now* and *Farsighted* Steven Johnson, author of *Where Good Ideas Come From*, *Emergence*, *Everything Bad is Good for You*, *Mind Wide Open* and *Ghost Map*, and an acknowledged bestselling leader on the subject of innovation, gathers - for a foundational text on the subject of innovation - essays, interviews, and cutting-edge insights by such exciting field leaders as Peter Drucker, Richard Florida, Eric Von Hippel, Dean Keith Simonton, Arthur Koestler, John Seely Brown, and Marshall Berman. Johnson also provides new material from Marisa Mayer of Google, Twitter's Biz Stone and Jack Dorsey, and Ray Ozzie, Microsoft's former Chief Software Architect. With additional commentary by Johnson himself, this book reveals the innovation found in a wide range of fields, including science, technology, energy, transportation, education, art, and sociology, making it vital, fresh, and fascinating reading for our time, and for the future.

High Performance Transaction Systems

2nd International Workshop, Asilomar Conference Center, Pacific Grove, CA, USA, September 28-30, 1987. Proceedings

Springer Science & Business Media This Lecture Notes volume is based on the "International Workshop on High Performance Transaction Systems" held in the Asilomar Conference Center, September 28-30, 1987. Many of the problems identified during the workshop are liable to determine the future development of transaction systems and distributed high performance systems in general for many years to come. So the organizers of HPTS '87 felt encouraged to collect the papers presented at the workshop in order to make them

accessible to a wider audience of interested developers and researchers. Since some of the contributions represented work in progress, the authors agreed to prepare revised and updated versions of their papers for this publication. This accounts for the long delay between the event itself and the publication, but on the other hand it provides the reader with a state-of-the-art account of transaction processing topics. The book is organized according to the major sections of the workshop. In the network section the reader finds an analysis of two of the major "paradigms" in networking, ISO/OSI and SNA, from the perspective of transaction processing. In the next section four different transaction processing and database systems are described: Model 204 - a database management system marketed by Computer Corporation of America, Tandem's NonStop SQL, Citicorp's transaction processing system and ALCS, which basically is a version of TPF running under MVS/XA. The section on architectural issues contains four very different contributions which are fairly representative of the type of problems in transaction systems investigated in the research community. Finally, performance evaluations and system comparisons are presented.

Membrane Technology and Applications

John Wiley & Sons Table of Contents Preface Acknowledgments for the first edition Acknowledgments for the second edition 1 Overview of Membrane Science and Technology 1 2 Membrane Transport Theory 15 3 Membranes and Modules 89 4 Concentration Polarization 161 5 Reverse Osmosis 191 6 Ultrafiltration 237 7 Microfiltration 275 8 Gas Separation 301 9 Pervaporation 355 10 Ion Exchange Membrane Processes - Electrodialysis 393 11 Carrier Facilitated Transport 425 12 Medical Applications of Membranes 465 13 Other Membrane Processes 491 Appendix 523 Index 535.

Proceedings of International Conference on Remote Sensing for Disaster Management

Issues and Challenges in Disaster Management

Springer The natural disasters are the killer agents which can/can't be predicted even though we have modern technology. Every year, in one place or another, disasters striking which is devastating the area and surroundings, leading to ecological disruption besides huge loss of life and property. India is vulnerable to cyclones, landslides/avalanches, earthquakes, floods, droughts, forest fires, epidemics, etc. The 5700-km long coast of India, with its dense population is vulnerable to cyclones/low depressions, tsunamis, etc. The 2400-km long rugged Himalayan terrain is vulnerable to landslides, avalanches and earthquakes. India is not only vulnerable to natural disasters, it is also experiencing industrial accidents. The Bhopal Gas tragedy is one of the major man-made disasters in the world. The state of Andhra Pradesh has 970-km long coastline with two major rivers, etc. The conference is conducted in Visakhapatnam, is famous for industries and tourism. Recently, several industrial accidents took place, besides major natural disasters like Hud-Hud, etc. Disaster management shall be implemented from the grass root level in vulnerable areas to improve the capacity building, so as to minimize the losses. The capacity building coupled with technology results in reduction of loss of life and property.

Control Systems Engineering, 3/e, 3rd Edition

Just Start

Take Action, Embrace Uncertainty, Create the Future

Harvard Business Press Outlines a path to success based on creativity and problem solving despite the changing economic climate and future uncertainty.

How Tobacco Smoke Causes Disease

The Biology and Behavioral Basis for Smoking-attributable Disease : a Report of the Surgeon General

U.S. Government Printing Office This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Vessel Health and Preservation: The Right Approach for Vascular Access

Springer This Open access book offers updated and revised information on vessel health and preservation (VHP), a model concept first published in poster form in 2008 and in JVA in 2012, which has received a great deal of attention, especially in the US, UK and Australia. The book presents a model and a new way of thinking applied to vascular access and administration of intravenous treatment, and shows how establishing and maintaining a route of access to the bloodstream is essential for patients in acute care today. Until now, little thought has been given to an intentional process to guide selection, insertion and management of vascular access devices (VADs) and by default actions are based on crisis management when a quickly selected VAD fails. The book details how VHP establishes a framework or pathway model for each step of the patient experience, intentionally guiding, improving and eliminating risk when possible. The evidence points to the fact that reducing fragmentation, establishing a pathway, and teaching the process to all stakeholders reduces complications with intravenous therapy, improves efficiency and diminishes cost. As such this book appeals to bedside nurses, physicians and other health professionals.

TEXTBOOK OF FINITE ELEMENT ANALYSIS

PHI Learning Pvt. Ltd. Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

Control System Components

McGraw-Hill Series in Control Systems Engineering

How Will You Measure Your Life? (Harvard Business Review Classics)

Harvard Business Review Press In the spring of 2010, Harvard Business School's graduating class asked HBS professor Clay Christensen to address them—but not on how to apply his principles and thinking to their post-HBS careers. The students wanted to know how to apply his wisdom to their personal lives. He shared with them a set of guidelines that have helped him find meaning in his own life, which led to this now-classic article. Although Christensen's thinking is rooted in his deep religious faith, these are strategies anyone can use. Since 1922, Harvard Business Review has been a leading source of breakthrough ideas in management practice. The Harvard Business Review Classics series now offers you the opportunity to make these seminal pieces a part of your permanent management library. Each highly readable volume contains a groundbreaking idea that continues to shape best practices and inspire countless managers around the world.

India's New Capitalists

Caste, Business, and Industry in a Modern Nation

Springer In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

International Perspectives on Spinal Cord Injury

World Health Organization "Every year between 250 000 and 500 000 people suffer a spinal cord injury, with road traffic crashes, falls and violence as the three leading causes. People with spinal cord injury are two to five times more likely to die prematurely. They also have lower rates of school enrollment and economic participation than people without such injuries. Spinal cord injury has costly consequences for the individual and society, but it is preventable, survivable and need not preclude good health and social inclusion. Ensuring an adequate medical and rehabilitation response, followed by supportive services and accessible environments, can help minimize the disruption to people with spinal cord injury and their families. The aims of International perspectives on spinal cord injury are to: --assemble and summarize information on spinal cord injury, in particular the epidemiology, services, interventions and policies that are relevant, together with the lived experience of people with spinal cord injury; --make recommendations for actions based on this evidence that are consistent with the aspirations for people with disabilities as expressed in the Convention on the Rights of Persons with Disabilities.

Feedback Control Systems

A compact exploration of the behavior of dynamic systems and how this behaviour may be changed by the use of feedback. *explains concepts in the simplest possible mathematical framework and develops concepts of design in parallel with those of analysis. *includes extensive coverage of modeling of physical systems. *features two chapters on state space analysis and design. *provides two chapters on digital computer control. *expands coverage of the classical root locus and frequency response design techniques, provides stepwise procedures for each, with examples for each case, treats phase-lag, phase-lead, and PID control design in separate sections *provides an expanded and formalized treatment of block diagram reduction, following the derivation of such diagrams for physical systems, and a discussion of signal flow graphs and Masons Gain Formula. *introduces the s-plane in Chapter 1, permitting early coverage of transient response calculation. *discusses controller tuning. *provides introductory-level coverage of advanced topics such as multivariable (ch. 13) and nonlinear controls (ch. 14)

Reliable Distributed Systems Technologies, Web Services, and Applications

Springer Science & Business Media Explains fault tolerance in clear terms, with concrete examples drawn from real-world settings Highly practical focus aimed at building "mission-critical" networked applications that remain secure

Entrepreneurship and Small Business Management in the Hospitality Industry

Routledge Small businesses are the backbone of the tourism and hospitality industry and, depending on which statistics one uses, represent somewhere between 75 to 95 percent of all firms globally in this sector. The number of entrepreneurs has dramatically and uniformly increased globally over the last ten years. Divided into four sections, *Entrepreneurship and Small Business Management in the Hospitality Industry* takes an intuitive step-by-step progression through each stage of the entrepreneurial process: context, theoretical perspectives and definitions; Concept to reality; The business plan; Growth and the future. Ideal for students at any level, the chapters of this book invite you to ponder upon your reading through a series of 'reflective practice' activities. These, along with case studies, clearly defined chapter objectives, reflections, role-play activities and experiential exercises, allow you to both think actively about themes, concepts and issues and then apply them to a number of suggested scenarios. Perfect preparation for the up-and-coming entrepreneur!

Biopesticides

Volume 2: Advances in Bio-inoculants

Woodhead Publishing **Biopesticide: Volume Two**, the latest release in the *Advances in Bioinoculant* series, provides an updated overview on the active substances utilized in current bioinsecticides, along with information on which of them can be used for integrated pest management programs in agro-ecosystems. The book presents a comprehensive look at the development of novel solutions against new targets, also introducing new technologies that enhance the efficacy of already available active substances. Finally, readers will find insights into the advanced molecular studies on insect microbial community diversity that are opening new frontiers in the development of innovative pest management strategies. This book will be valuable to those prioritizing agro biodiversity management to address optimal productizing and enhanced food security. Explores the increasing number of newly introduced and improved products that can be used alone or in rotation or combination with conventional chemicals Promotes the importance of, and tactics for, managing the agro ecosystem surrounding food security Provides state of the art description of various approaches and techniques for the real-world application of biopesticides

Control System Engineering

Technical Publications The book is written for an undergraduate course on the Feedback Control Systems. It provides comprehensive explanation of theory and practice of control system engineering. It elaborates various aspects of time domain and frequency domain analysis and design of control systems. Each chapter starts with the background of the topic. Then it gives the conceptual knowledge about the topic dividing it in various sections and subsections. Each chapter provides the detailed explanation of the topic, practical examples and variety of solved problems. The explanations are given using very simple and lucid language. All the chapters are arranged in a specific sequence which helps to build the understanding of the subject in a logical fashion. The book starts with explaining the various types of control systems. Then it explains how to obtain the mathematical models of various types of systems such as electrical, mechanical, thermal and liquid level systems. Then the book includes good coverage of the block diagram and signal flow graph methods of representing the various systems and the reduction methods to obtain simple system from the analysis point of view. The book further illustrates the steady state and transient analysis of control systems. The book covers the fundamental knowledge of controllers used in practice to optimize the performance of the systems. The book emphasizes

the detailed analysis of second order systems as these systems are common in practice and higher order systems can be approximated as second order systems. The book teaches the concept of stability and time domain stability analysis using Routh-Hurwitz method and root locus method. It further explains the fundamentals of frequency domain analysis of the systems including co-relation between time domain and frequency domain. The book gives very simple techniques for stability analysis of the systems in the frequency domain, using Bode plot, Polar plot and Nyquist plot methods. It also explores the concepts of compensation and design of the control systems in time domain and frequency domain. The classical approach loses the importance of initial conditions in the systems. Thus, the book provides the detailed explanation of modern approach of analysis which is the state variable analysis of the systems including methods of finding the state transition matrix, solution of state equation and the concepts of controllability and observability. The variety of solved examples is the feature of this book which helps to inculcate the knowledge of the design and analysis of the control systems in the students. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

The Future of Technology

John Wiley & Sons From the industrial revolution to the railway age, through the era of electrification, the advent of mass production, and finally to the information age, the same pattern keeps repeating itself. An exciting, vibrant phase of innovation and financial speculation is followed by a crash, after which begins a longer, more stately period during which the technology is actually deployed properly. This collection of surveys and articles from *The Economist* examines how far technology has come and where it is heading. Part one looks at topics such as the “greying” (maturing) of IT, the growing importance of security, the rise of outsourcing, and the challenge of complexity, all of which have more to do with implementation than innovation. Part two looks at the shift from corporate computing towards consumer technology, whereby new technologies now appear first in consumer gadgets such as mobile phones. Topics covered will include the emergence of the mobile phone as the “digital Swiss Army knife”; the rise of digital cameras, which now outsell film-based ones; the growing size and importance of the games industry and its ever-closer links with other more traditional parts of the entertainment industry; and the social impact of technologies such as text messaging, Wi-Fi, and camera phones. Part three considers which technology will lead the next great phase of technological disruption and focuses on biotechnology, energy technology, and nanotechnology.