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Handbook of Engineering Mathematics

UNIX System Programming

Addison Wesley Publishing Company

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I. K. International Pvt Ltd *In Computer Aided Engineering Drawing, the author draws upon his vast experience of teaching and presents a student friendly step-by-step demonstrative approach, similar to that of classroom teaching. Key Features: * Use of updated B.I.S. conventions. * Incorporates standard assumptions in case of incomplete data by framing special problems. * Introduces various softwares for computer-aided engineering darwings. * Includes solved problems using different methods. * A concise summary at the end of each chapter for quick revision. * Includes solutions to difficult problems using 3-D diagrams. * Examination problems of VTU and other universities have been included in the exercise section for practice. Hints have been given to solve the problems where necessary. * The complete book has been written with classroom teaching approach.*

Industrial Engineering and Ergonomics

Visions, Concepts, Methods and Tools Festschrift in Honor of Professor Holger Luczak

Springer Science & Business Media *The 60th birthday of Prof. Luczak is the reason for this book. He will be honoured for his research work during the "GfA-confernece" in March 2009. This book is the correspondig "Festschrift" for him.*

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Trans Tech Publications Ltd *The papers in this book were the object of strict peer-review, and cover the latest advances in, and applications of, advanced design technology, CAD/CAM/CAE, mechanical dynamics, friction and wear and advanced manufacturing technologies.*

Veerappan

Chasing the Brigand

Rupa Publications *No other bandit in recent times has captured the public's imagination as much as Koose Muniswamy Veerappan. Be it his trademark moustache, stories of his daring escapades or his ruthless massacre of officers, Veerappan continues to fascinate, even thirteen years after his death. Veerappan: Chasing the Brigand is a lucid and incisive account of the rise and fall of India's most dreaded forest brigand. Chronicled by K. Vijay Kumar, IPS, the man who spearheaded the Tamil Nadu Special Task Force (STF) that planned and executed the dreaded bandit's killing, the book relives the various incidents that shaped Veerappan's life - from his birth in Gopinatham in 1952 to his death in 2004 in a shootout in Padi. It traces his dramatic rise from a small-time poacher and sandalwood smuggler to a brutal fugitive who held three states to ransom for two decades. The ruthless killings and high-profile kidnappings masterminded by Veerappan, including the 108-day ordeal involving Kannada cinema superstar, Dr Rajkumar, are described in fascinating detail. Veerappan: Chasing the Brigand is the most authentic account of the life and times of the dreaded outlaw.*

High Performance Control of AC Drives with Matlab/Simulink

John Wiley & Sons *High Performance Control of AC Drives with Matlab®/Simulink Explore this indispensable update to a popular graduate text on electric drive techniques and the latest converters used in industry The Second Edition of High Performance Control of AC Drives with Matlab®/Simulink delivers an updated and thorough overview of topics central to the understanding of AC motor drive systems. The book includes new material on medium voltage drives, covering state-of-the-art technologies and challenges in the industrial drive system, as well as their components, and control, current source inverter-based drives, PWM techniques for multilevel inverters, and low switching frequency modulation for voltage source inverters. This book covers three-phase and multiphase (more than three-phase) motor drives including their control and practical problems faced in the field (e.g., adding LC filters in the output of a feeding converter), are considered. The new edition contains links to Matlab®/Simulink models and PowerPoint slides ideal for teaching and understanding the material contained within the book. Readers will also benefit from the inclusion of: A thorough introduction to high performance drives, including the challenges and requirements for electric drives and medium voltage industrial applications An exploration of mathematical and simulation models of AC machines, including DC motors and squirrel cage induction motors A treatment of pulse width modulation of power electronic DC-AC converter, including the classification of PWM schemes for voltage source and current source inverters Examinations of harmonic injection PWM and field-oriented control of AC machines Voltage source and current source inverter-fed drives and their control Modelling and control of multiphase motor drive system Supported with a companion website hosting online resources. Perfect for senior undergraduate, MSc and PhD students in power electronics and electric drives, High Performance Control of AC Drives with Matlab®/Simulink will also earn a place in the libraries of researchers working in the field of AC motor drives and power electronics engineers in industry.*

The Return of the Mother

North Atlantic Books *Adapted from a series of lectures on the historical basis and current resurgence of the sacred feminine, given by Andrew Harvey at the California Institute of Integral Studies in Spring 1994, The Return of the Mother is a profound journey into the heart of the Divine Mother. In this comprehensive and groundbreaking work, mystical scholar Andrew Harvey unearths traces of the sacred feminine in major world religions—Hinduism, Islam (Sufism), Buddhism, Taoism, and Christianity—and in aboriginal and indigenous wisdom traditions. Harvey presents a scathing critique of the patriarchal distortions in religious history and doctrine that have obscured full knowledge of the Divine Mother, and shows how to reintegrate this vital aspect into the spiritual consciousness of humankind. The Return of the Mother offers a radical new perspective, balancing the historical overemphasis on transcendence by honoring the immanence of the divine in passionate engagement in the world. Only by cultivating a direct, respectful relationship with the transformative power of the sacred feminine can we alter our disastrous attitude of dissociation from nature, the body, sexuality, and the details of human life, and generate the energy and compassion needed to reverse the course of destruction we have set the planet—and all of life—hurtling toward. In lively question-and-answer sections, Harvey further illuminates these vital issues and takes a strong stand against our dependence on “gurus” and “masters,” proposing instead an egalitarian model of spiritual community based on intimate groups of mutually supportive guides and friends. The Return of the Mother is an eloquent and passionate call for all of us to rediscover and reclaim an authentic and empowering relationship to the divine, and recreate a sacred life-in-the-world.*

ELECTRONIC DEVICES AND CIRCUITS

PHI Learning Pvt. Ltd. *Designed specifically for undergraduate students of Electronics and Electrical Engineering and its related disciplines, this book offers an excellent coverage of all essential topics and provides a solid foundation for analysing electronic circuits. It covers the course named Electronic Devices and Circuits of various universities. The book will also be useful to diploma students, AMIE students, and those pursuing courses in B.Sc. (Electronics) and M.Sc. (Physics). The students are thoroughly introduced to the full spectrum of fundamental topics beginning with the theory of semiconductors and p-n junction behaviour. The devices treated include diodes, transistors—BJTs, JFETs and MOSFETs—and thyristors. The circuitry covered comprises small signal (ac), power amplifiers, oscillators, and operational amplifiers including many important applications of those versatile devices. A separate chapter on IC fabrication technology is provided to give an idea of the technologies being used in this area. There are a variety of solved*

examples and applications for conceptual understanding. Problems at the end of each chapter are provided to test, reinforce and enhance learning.

DSP-Based Electromechanical Motion Control

CRC Press *Although the programming and use of a Digital Signal Processor (DSP) may not be the most complex process, utilizing DSPs in applications such as motor control can be extremely challenging for the first-time user. DSP-Based Electromechanical Motion Control provides a general application guide for students and engineers who want to implement DSP-base*

Thyristor-Based FACTS Controllers for Electrical Transmission Systems

John Wiley & Sons *An important new resource for the international utility market Over the past two decades, static reactive power compensators have evolved into a mature technology and become an integral part of modern electrical power systems. They are one of the key devices in flexible AC transmission systems (FACTS). Coordination of static compensators with other controllable FACTS devices promises not only tremendously enhanced power system controllability, but also the extension of power transfer capability of existing transmission corridors to near their thermal capacities, thus delaying or even curtailing the need to invest in new transmission facilities. Offering both an in-depth presentation of theoretical concepts and practical applications pertaining to these power compensators, Thyristor-Based FACTS Controllers for Electrical Transmission Systems fills the need for an appropriate text on this emerging technology. Replete with examples and case studies on control design and performance, the book provides an important resource for both students and engineers working in the field.*

Thyristorised Power Controllers

New Age International *A comprehensive treatment of the subject of power electronics is provided in this book. It deals with the principles of operation of various thyristorised power controllers systematically, and explains the important basic concepts for a beginner. For advanced readers and practising engineers it covers many topics such as static reactive power compensation, power factor control, current source inverter, time-sharing inverter, multiphase chopper and harmonic control in PWM inverters.*

Basic Civil Engineering

Firewall Media

MATERIALS SCIENCE AND ENGINEERING

A FIRST COURSE

PHI Learning Pvt. Ltd. *This well-established and widely adopted book, now in its Sixth Edition, provides a thorough analysis of the subject in an easy-to-read style. It analyzes, systematically and logically, the basic concepts and their applications to enable the students to comprehend the subject with ease. The book begins with a clear exposition of the background topics in chemical equilibrium, kinetics, atomic structure and chemical bonding. Then follows a detailed discussion on the structure of solids, crystal imperfections, phase diagrams, solid-state diffusion and phase transformations. This provides a deep insight into the structural control necessary for optimizing the various properties of materials. The mechanical properties covered include elastic, anelastic and viscoelastic behaviour, plastic deformation, creep and fracture phenomena. The next four chapters are devoted to a detailed description of electrical conduction, superconductivity, semiconductors, and magnetic and dielectric properties. The final chapter on 'Nanomaterials' is an important addition to the sixth edition. It describes the state-of-art developments in this new field. This eminently readable and student-friendly text not only provides a masterly analysis of all the relevant topics, but also makes them comprehensible to the students through the skillful use of well-drawn diagrams, illustrative tables, worked-out examples, and in many other ways. The book is primarily intended for undergraduate students of all branches of engineering (B.E./B.Tech.) and postgraduate students of Physics, Chemistry and Materials Science. KEY FEATURES • All relevant units and constants listed at the beginning of each chapter • A note on SI units and a full table of conversion factors at the beginning • A new chapter on 'Nanomaterials' describing the state-of-art information • Examples with solutions and problems with answers • About 350 multiple choice questions with answers*

Basic Mechanical Engineering

Pearson Education India *Basic Mechanical Engineering covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.*

Introduction to Basic Manufacturing Process and

Workshop Technology

New Age International *Manufacturing And Workshop Practices Have Become Important In The Industrial Environment To Produce Products For The Service Of Mankind. The Basic Need Is To Provide Theoretical And Practical Knowledge Of Manufacturing Processes And Workshop Technology To All The Engineering Students. This Book Covers Most Of The Syllabus Of Manufacturing Processes/Technology, Workshop Technology And Workshop Practices For Engineering (Diploma And Degree) Classes Prescribed By Different Universities And State Technical Boards.Some Comparisons Have Been Given In Tabular Form And The Stress Has Been Given On Figures For Better Understanding Of Tools, Equipments, Machines And Manufacturing Setups Used In Various Manufacturing Shops. At The End Of Each Chapter, A Number Of Questions Have Been Provided For Testing The Student S Understanding About The Concept Of The Subject. The Whole Text Has Been Organized In 26 Chapters.The First Chapter Presents The Brief Introduction Of The Subject With Modern Concepts Of Manufacturing Technology Needed For The Competitive Industrial Environment. Chapter 2 Provides The Necessary Details Of Plant And Shop Layouts. General Industrial Safety Measures To Be Followed In Various Manufacturing Shops Are Described In Detail In Chapter 3. Chapters 4 8 Provide Necessary Details Regarding Fundamentals Of Ferrous Materials, Non-Ferrous Materials, Melting Furnaces, Properties And Testing Of Engineering Materials And Heat Treatment Of Metals And Alloys. Chapters 9 13 Describe Various Tools, Equipments And Processes Used In Various Shops Such As Carpentry, Pattern Making, Mold And Core Making, Foundry Shop. Special Casting Methods And Casting Defects Are Also Explained At Length.Chapters 14 16 Provide Basic Knowledge Of Mechanical Working Of Metals. Fundamental Concepts Related To Forging Work And Other Mechanical Working Processes (Hot And Cold Working) Have Been Discussed At Length With Neat Sketches. Chapter 17 Provides Necessary Details Of Various Welding And Allied Joining Processes Such As Gas Welding, Arc Welding, Resistance Welding, Solid-State Welding, Thermochemical Welding, Brazing And Soldering. Chapters 18 19 Describe Sheet Metal And Fitting Work In Detail. Various Kinds Of Hand Tools And Equipments Used In Sheet Metal And Fitting Shops Have Been Described Using Neat Sketches. Chapters 20 24 Provide Construction And Operational Details Of Various Machine Tools Namely Lathe, Drilling Machine, Shaper, Planer, Slotter, And Milling Machine With The Help Of Neat Diagrams. Chapter 25 Deals With Technique Of Manufacturing Of Products With Powder Metallurgy. The Last Chapter Of The Book Discusses The Basic Concepts Of Quality Control And Inspection Techniques Used In Manufacturing Industries.The Book Would Serve Only As A Text Book For The Students Of Engineering Curriculum But Would Also Provide Reference Material To Engineers Working In Manufacturing Industries.*

ELEMENTS OF ENVIRONMENTAL SCIENCE AND ENGINEERING

PHI Learning Pvt. Ltd. *Designed as a text for all undergraduate students of engineering for their core course in Environmental Science and Engineering and for elective courses in environmental health engineering and pollution and control engineering for students of civil engineering, this comprehensive text, now in its Second Edition provides an in-depth analysis of the fundamental concepts. It also introduces the reader to different niche areas of environmental science and engineering. The book covers a wide array of topics, such as natural resources, disaster management, biodiversity, and various forms of pollution, viz. water pollution, air pollution, soil pollution, noise pollution, thermal pollution, and marine pollution, as well as environmental impact assessment and environmental protection. This edition introduces a new chapter on Environment and Human Health. KEY FEATURES : Gives in-depth yet lucid analysis of topics, making the book user-friendly. Covers important topics, which are adequately supported by illustrative diagrams. Provides case studies to explore real-life problems. Supplies review questions at the end of each chapter to drill the students in self-study.*

Technical Communication

Principles and Practice

Oxford University Press, USA *The text material has been restructured to provide a more balanced and exhaustive coverage of the subject.The text discusses the core concepts of technical communication and explains them with the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD.With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for corporate training programmes.*

Technology and Medical Sciences

CRC Press *The use of more robust, affordable, and efficient techniques and technologies in the application of medicine is presently a subject of huge interest and demand. Technology and Medical Sciences solidifies knowledge in the fields of technology and medical sciences and to define their key stakeholders. The book is designed for academics in engineering, mathematics, medicine, biomechanics, computation sciences, hardware development and manufacturing, electronics and instrumentation, and materials science.*

Discrete and Integrated Power Semiconductor Devices Theory and Applications

John Wiley & Sons *Power Semiconductor Devices Theory and Applications Vít???zslav Benda Czech Technical University, Prague, Czech Republic John Gowar Duncan A. Grant University of Bristol, UK Recent advances in robotics, automatic control and power conditioning systems have prompted research into increasingly sophisticated power semiconductor devices. This cutting-edge text explores the design, physical processes and applications performance of current power semiconductor devices. The extensive scope covers the complete range of discrete and integrated devices now available. Features include: * Use of physical models to explain the device structures and functions without complicated mathematical techniques * Explanation of the structure, function, characteristics and features of the most important discrete and integrated power devices * Demonstration of the influence of construction and technological parameters on important device characteristics * Sections on power modules and conditions for reliable operation plus a look at future materials and devices This valuable reference encompassing the structure, operation and application of power semiconductor devices will benefit both practising electronics engineers and students of power electronics.*

Elements of MECHANICAL ENGINEERING

PHI Learning Pvt. Ltd. *This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for study by the students of AMIE and the students of diploma level courses.*

Environmental Science And Engineering (anna University)

New Age International *Environmental Science And Engineering Pertain To A Systematic Analysis Of The Natural And Man-Made World Encompassing Various Scientific, Economic, Social And Ethical Aspects. Human Impacts Leading To Large-Scale Degradation Of The Environment Have Aroused Global Concern On Environmental Issues In The Recent Years. The Apex Court Has Hence, Issued Directive To Impart Environmental Literacy To All.In This Book The Fundamental Concepts Of Environmental Science And Engineering Have Been Introduced And Analyzed In A Simple Manner Strictly As Per The Anna University Iind And Iiird Semester Syllabus. Besides The Undergraduate Students Of All Disciplines The Book Will Also Be Useful For Those Appearing In Various Competitive Exams Since Environmental Issues Now Find A Focus In Most Of Such Examinations. The Contents Of The Book Will Be Of Interest To All Educationists, Planners And Policy Makers.Key Features Of The Book Include A Simple And Holistic Approach With Illustrations, Tables And Specific Case Studies Mainly In The Indian Context. The Basic Terminologies Have Been Defined In The Text While Introducing The Topics And Some Useful Terms Mentioned In The Text Have Been Explained In The Glossary For An Easy Grasp By Students Of All Disciplines.*

Technical Communication

Cengage Learning *Thousands of students have successfully improved their writing and design skills using Anderson's TECHNICAL COMMUNICATION: A READER-CENTERED APPROACH. Known for its treatment of the rhetorical situation and coverage of usefulness and persuasion, this edition renews the focus on the reader-centered approach and includes new learning outcomes at the start of each chapter to help students gain more from their reading. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

Problem Solving with C

Addison-Wesley *This book introduces beginning programming concepts using the C language.Each chapter introduces a problem to solve, and then covers the C language constructs necessary to solve the problem.This book is for programmers who are beginners in the C language.*

High-frequency Switching Power Supplies

Theory and Design

McGraw-Hill Companies

POWER ELECTRONICS: ESSENTIALS & APPLICATIONS (With CD)

Special Features: · Power semiconductor devices are viewed from the physics, circuit, modeling and thermal viewpoints for a better understanding of the devices.· AC-DC, DC-DC, DC-AC converters and magnetic devices are treated from both the conceptual and design perspectives.· A separate chapter is included that addresses the analysis and design of linear regulators.· A chapter is included to address the modeling methods to obtain dynamic models of power electronics systems. The method of bond graph is introduced for modeling power electronics systems.· The design of discrete domain controllers in both classical and state space approach are included which addresses the needs of power electronic systems.· Optimal and robust control design methods as applied to power electronics systems are addressed.· Discrete numerical algorithms for digital implementation with respect to power electronics systems are addressed in a separate chapter.· A separate chapter is devoted to the thermal aspects like heat sink sizing for power electronics systems.· Design integration by specifying and designing for reliability with power electronics system examples is another unique feature of this book. · The appendices include the following:o Derivation of the area product for a saturable-core transformer.o Representative list of commonly used core types and their physical parameters.o Representative list of commonly used wire gauges.o Laplace transforms and z-transforms of few time domain signals.o List of specifications for the induction motor used for controller design.o Description of all the object parameters for various electronic components from the reliability prediction viewpoint. Pedagogy includes:o 600+ illustrations and line diagrams.o 480+ descriptive questions.o 440+ objective questions.o 200+ unsolved problems.o 50+ explanatory examples and solved problems.Companion CD contains:· Reliability prediction toolbox· Bond graph simulation toolbox· Several circuit and design examples About The Book: This book on power electronics spans a wide knowledge base such as power devices, drives, circuit topologies, magnetics, system modeling, control configurations, digital processing, thermal and reliability aspects. The book has been broadly divided into two types of topics viz. (a) circuit-oriented aspects and (b) system-oriented aspects. The first seven chapters deal with circuit-oriented aspects of power electronics systems and the remaining chapters deal with system-oriented aspects like controls and reliability.

Engineering Chemistry

I. K. International Pvt Ltd *Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.*

Engineering Mathematics: For First Year

My Darkest Years

Memoirs of a Survivor of Auschwitz, Warsaw and Dachau

McFarland *Born in Berlin in 1922, James Bachner was a German Jew during the darkest days of the Third Reich. Once a happy child in a well-to-do German family, as the years passed Bachner faced first ridicule and persecution, then imprisonment and deprivation. Attributing his survival to a combination of strength and being in the right place at the right time, Bachner's memoir is a poignant and often horrific account of Jewish struggles during the days of World War II. Beginning with his idyllic childhood, Bachner expresses the range of emotions he experienced as the Nazis transformed his homeland into a nation where he and his fellow Jews were no longer welcome. He describes the volatile political atmosphere and the fears inspired in all Germans by tales of the concentration camps. In addition, he tells of the belief many Jews held that the West would step in and put an end to Hitler's reign. The work then details the realities of life in a concentration camp. The end of the war, Bachner's reunion with his remaining family members and his eventual relocation to America are also discussed.*

Communication Skills for Engineers

Pearson Education India *The second edition of Communication Skills for Engineers brings in a sound understanding and insight into the dynamics of communication in all spheres of life interpersonal, social and professional. The book hinges on the premise that effective communication is an outcome of using the right combination of skills alongside an appropriate attitude.*

Digital Signal Processing with Examples in MATLAB

CRC Press *Based on fundamental principles from mathematics, linear systems, and signal analysis, digital signal processing (DSP) algorithms are useful for extracting information from signals collected all around us. Combined with today's powerful computing capabilities, they can be used in a wide range of application areas, including engineering, communicati*

Dynamic Simulation of Electric Machinery

Using MATLAB/SIMULINK

Prentice Hall *This book and its accompanying CD-ROM offer a complete treatment from background theory and models to implementation and verification techniques for simulations and linear analysis of frequently studied machine systems. Every chapter of Dynamic Simulation of Electric Machinery includes exercises and projects that can be explored using the accompanying software. A full chapter is devoted to the use of MATLAB and SIMULINK, and an appendix provides a convenient overview of key numerical methods used. Dynamic Simulation of Electric Machinery provides professional engineers and students with a complete toolkit for modeling and analyzing power systems on their desktop computers.*

Learn English

A Fun Book of Functional Language, Grammar, and Vocabulary

SAGE Publications Pvt. Limited *A one-book army that will demolish your fear of and troubles with English! If you wish to improve your English but don’t know where to begin, try reading this book. Learn English is a complete package that presents the fundamentals of the English language in an enjoyable, reader-friendly style. From basic sentences to complex grammatical forms, from essential English words to modern business vocabulary, and from common errors to elements of style, this book covers them all! As you work through the book, you will find answers to your questions in easy-to-understand, informal language. The book is specifically aimed at South Asians who face similar challenges while learning English. With contexts and stories they can easily relate to, this book offers insights into English in a fun way. It will help you speak and write English with clarity and confidence. This book: • Can an be used either by self-learners or in a classroom • Is based on modern concepts of second language acquisition • Deals with linguistic challenges and cultural aspects from a South Asian perspective*

Real-Time Systems

Pearson Education India

ELEMENTS OF CIVIL ENGINEERING - 4TH EDITION

HVDC Power Transmission Systems

New Academic Science Limited *Emerging technology of VSC-HVDC links is described in detail Presents new developments such as application of hybrid active filters, capacitor commuted converters, double and triple tuned filters etc. Several examples and case studies are included to illustrate concepts.*

Facts Controllers in Power Transmission and Distribution

Anshan Pub *The emerging technology of Flexible AC Transmission System (FACTS) enables planning and operation of power systems at minimum costs, without compromising security. This is based on modern high power electronic systems that provide fast controllability to ensure ‘flexible' operation under changing system conditions. This book presents a comprehensive treatment of the subject by discussing the operating principles, mathematical models, control design and issues that affect the applications. The concepts are explained often with illustrative examples and case studies. In particular, the book presents an in-depth coverage of: Applications of SVC, TCSC, GCSC, SPST, STATCOM, SSSC, UPFC, IPFC and IPC for voltage/power control in transmission systems; Application of DSTATCOM, DVR and UPQC for improving power quality in distribution systems; Design of Power Oscillation Damping (POD) controllers; Discrete control of FACTS for improving transient stability; Mitigation of SSR using series FACTS Controllers; Issues affecting control design such as electromagnetic and harmonic interactions. The book can serve as a text or reference for a course on FACTS Controllers. It will also benefit researchers and practicing engineers who wish to understand and apply FACTS technology.*

Digital Circuits And Design, 3E

The Use Of Digital Circuits Is Increasing In All Disciplines Of Engineering. Consequently Students Need To Have An In-Depth Knowledge On Them. Digital Circuits And Design Is A Textbook Dealing With The Basics Of Digital Technology Including The Design Asp

Advanced Organic Chemistry