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Networks and Systems *Electrical Power Sytems, 5e (PB)* **Elelctrical Power Systems** *Analog Communication Systems* **Electrical Power System** **Electrical Power Systems** Electrical Power System Essentials *Power System Analysis* **Witness to Blunder** Urdu for Children, Book 1 **Electrical Engineering Principles** Nanomedicine Manufacturing and Applications **Frontline Pakistan** Classical and Quantum Dynamics in Condensed Phase Simulations Irrigation Management in Pakistan *Cotton Production and Uses* Basic Electrical Engineering **CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide** **Communication and Networking** **Principles of Power System** *Principles of Electrical Machines* **Ubiquitous Intelligent Systems** System Assurances Comprehensive Dictionary of Electrical Engineering **PRODUCTION AND OPERATIONS MANAGEMENT** **Transformers and Generators** Fundamentals of Power System Protection Reconciliation **Faith, Unity, Discipline** *Handbook of Climate Change and Agroecosystems* **Frontiers of Laser Physics and Quantum Optics** **Climate Change and Agriculture** *Breath of Death Socio-Environmental Dynamics along the Historical Silk Road* **How Tobacco Smoke Causes Disease** **Agronomic Crops** **Linear Integrated Circuits** *No-Win War* **Kargil Reinventing Sustainability**

System Assurances: Modeling and Management updates on system assurance and performance methods using advanced analytics and understanding of software reliability growth modeling from today’s debugging team’s point-of-view, along with information on preventive and predictive maintenance and the efficient use of testing resources. The book presents the rapidly growing application areas of systems and software modeling, including intelligent synthetic characters, human-machine interface, menu generators, user acceptance analysis, picture archiving and software systems. Students, research scholars, academicians, scientists and industry practitioners will benefit from the book as it provides better insights into modern related global trends, issues and practices. Provides software reliability modeling, simulation and optimization Offers methodologies, tools and practical applications of reliability modeling and resources allocation Presents cost modeling and optimization associated with complex systems This book provides a comprehensive and systematic overview of the recent developments in cotton production and processing, including a number of

genetic approaches, such as GM cotton for pest resistance, which have been hotly debated in recent decades. In the era of climate change, cotton is facing diverse abiotic stresses such as salinity, drought, toxic metals and environmental pollutants. As such, scientists are developing stress-tolerant cultivars using agronomic, genetic and molecular approaches. Gathering papers on these developments, this timely book is a valuable resource for a wide audience, including plant scientists, agronomists, soil scientists, botanists, environmental scientists and extention workers. "Joint Publication with the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America." Based on William Stevenson's classic, Elements of Power System Analysis, this new senior/graduate text offers a completely modern update of this popular textbook. Covering such topics as power flow, power-system stability and transmission lines, the book teaches the fundamental topics of power system analysis accompanied by logical discussions and numerous examples. “It is impossible to understand today’s world without knowing Pakistan; and impossible to understand Pakistan without reading this book. A courageous woman—tragically killed—speaks to us of reconciliation. We owe it to her—and to ourselves—to listen, comprehend, and act.” — Madeleine Albright “One of the most gripping and important books of our era.” — Walter Isaacson Benazir Bhutto returned to Pakistan in October 2007, after eight years of exile, hopeful that she could be a catalyst for change. Upon a tumultuous reception, she survived a suicide-bomb attack that killed nearly two hundred of her compatriots. But she continued to forge ahead, with more courage and conviction than ever, since she knew that time was running out—for the future of her nation and for her life. In Reconciliation, Bhutto recounts in gripping detail her final months in Pakistan and offers a bold new agenda for how to stem the tide of Islamic radicalism and to rediscover the values of tolerance and justice that lie at the heart of her religion. She speaks out not just to the West but also to the Muslims across the globe. Bhutto presents an image of modern Islam that defies the negative caricatures often seen in the West. After reading this book, it will become even clearer what the world has lost by her assassination Designed Primarily For Courses In Operational Amplifier And Linear Integrated Circuits For Electrical, Electronic, Instrumentation And Computer Engineering And Applied Science Students. Includes Detailed Coverage Of Fabrication Technology Of Integrated Circuits. Basic Principles Of Operational Amplifier, Internal Construction And Applications Have Been Discussed. Important Linear Ics Such As 555 Timer, 565 Phase-Locked Loop, Linear Voltage Regulator Ics 78/79 Xx And 723 Series D-A And A-D Converters Have Been Discussed In Individual Chapters. Each Topic Is Covered In Depth. Large Number Of Solved Problems, Review Questions And Experiments Are Given With Each Chapter For Better Understanding Of Text.Salient Features Of Second Edition * Additional Information Provided Wherever Necessary To Improve The Understanding Of Linear Ics. * Chapter 2 Has Been Thoroughly Revised. * Dc & Ac Analysis Of Differential Amplifier Has Been Discussed In Detail. * The Section On Current Mirrors Has Been Thoroughly Updated. * More Solved Examples, Pspice Programs And Answers To Selected Problems Have Been Added. The importance of transformers and generators is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief

review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and efficiency is also included in the book. The chapter on three phase transformer provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel operation of transformers, tap changing transformer, autotransformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators starts with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting. This open access book discusses socio-environmental interactions in the middle to late Holocene, covering specific areas along the ancient Silk Road regions. Over twenty chapters provide insight into this topic from various disciplinary angles and perspectives, ranging from archaeology, paleoclimatology, antiquity, historical geography, agriculture, carving art and literacy. The Silk Road is a modern concept for an ancient network of trade routes that for centuries facilitated and intensified processes of cultural interaction and goods exchange between West China, Central Asia, the Middle East, and the Mediterranean. Coherent patterns and synchronous events in history suggest possible links between social upheaval, resource utilization and climate or environment forces along the Silk Road and in a broader area. Post-graduates in studying will benefit from this work, as well as it will stimulate young researchers to further explore the role played by the environment in long-term socio-cultural changes. About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc. Why does a group of stranded paratroopers call for Bofors' fire upon its own position? Why is an old man in Palampur fighting for justice for his dead soldier son? What makes a martyr's father visit a young Kashmiri girl every year? Kargil takes you into the treacherous mountains where some of Indian Army's bloodiest battles were fought. Interviewing war survivors and martyrs' families, Rachna Bisht Rawat tells stories of extraordinary human courage, of not just men in uniform but also those who

loved them the most. With its gritty stories of incomparable bravery, Kargil is a tribute to the 527 young braves who gave up their lives for us-and the many who were ready to do it too. After The Assassination Of Benazir Bhutto, Pakistan Stands On The Edge Of An Abyss Into Which It May Plunge The World. As This Nuclear Power Nation, The Front Line Of The West&Rsquo;S Struggle Against Al Qaeda, Enters The Worst Political Crisis In Its History, Zahid Hussain&Rsquo;S Acclaimed And Updated Book Unravels The Key Questions: Who Really Controls The Country? Will Pakistan Be Talibanized? Has Al Qaeda Infiltrated The State? After 9/11, Pakistan&Rsquo;S Controversial President, Pervez Musharraf Stunned The World By Announcing His Support For America&Rsquo;S &Lsquo;War On Terror&Rsquo;. But In Pakistan, As Zahid Hussain Reveals, Nothing Is As It Seems. The Author Documents For The First Time In Detail The Incestuous Relationship Between Pakistan&Rsquo;S Jihadis And Its All-Powerful Military Intelligence Agency&Mdash;The Isi. He Penetrates The Jihadi Networks, Revealing Their Sources Of Funding, And Their Links With The Taliban And Al Qaeda, And Based On Exclusive Interviews With Key Players, He Shows Us The Fall-Out From Musharraf&Rsquo;S Momentous Decision To Support America. From The Dangerous Mountain Passes Of Waziristan To The Mess Tables Of Rawalpindi And The Sectarian Madrassas Of The Punjab, Hussain Portrays A Country Which Was Already Seething With Unrest Before Political Violence Claimed Its Highest Profile Victim In December 2007. As The Author Shows, Whoever Was Behind The Assassination Of Benazir Bhutto, Its Main Effect Has Been To Accelerate The Country&Rsquo;S Fragmentation, Creating A Level Of Uncertainty And Chaos From Which Only Extremists And Terrorists Can Benefit. Whatever Lies In Wait For Pakistan&Mdash;Talibanization, Civil War Or Worse&Mdash;It Will Have Grave Implications For The Entire World. NOTE: The exam this book covered, CISSP: Certified Information Systems Security Professional, was retired by (ISC)2® in 2018 and is no longer offered. For coverage of the current exam (ISC)² CISSP Certified Information Systems Security Professional, please look for the latest edition of this guide: (ISC)² CISSP Certified Information Systems Security Professional Official Study Guide, Eighth Edition (9781119475934). CISSP Study Guide - fully updated for the 2015 CISSP Body of Knowledge CISSP (ISC)2 Certified Information Systems Security Professional Official Study Guide, 7th Edition has been completely updated for the latest 2015 CISSP Body of Knowledge. This bestselling Sybex study guide covers 100% of all exam objectives. You'll prepare for the exam smarter and faster with Sybex thanks to expert content, real-world examples, advice on passing each section of the exam, access to the Sybex online interactive learning environment, and much more. Reinforce what you've learned with key topic exam essentials and chapter review questions. Along with the book, you also get access to Sybex's superior online interactive learning environment that includes: Four unique 250 question practice exams to help you identify where you need to study more. Get more than 90 percent of the answers correct, and you're ready to take the certification exam. More than 650 Electronic Flashcards to reinforce your learning and give you last-minute test prep before the exam A searchable glossary in PDF to give you instant access to the key terms you need to know for the exam Coverage of all of the exam topics in the book means you'll be ready for: Security and Risk Management Asset Security

Security Engineering Communication and Network Security Identity and Access Management Security Assessment and Testing Security Operations Software Development Security Since the advent of the laser about 40 years ago, the fields of laser physics and quantum optics have evolved into a major disciplines. The early studies included optical coherence theory and semiclassical and quantum mechanical theories of the laser. More recently many new and interesting effects have been predicted. These include the role of coherent atomic effects in lasing without inversion and electromagnetically induced transparency, atom optics, laser cooling and trapping, teleportation, the single-atom micromaser and its role in quantum measurement theory, to name a few. The International Conference on Laser Physics and Quantum Optics was held in Shanghai, China, from August 25 to August 28,1999, to discuss these and many other exciting developments in laser physics and quantum optics. The international character of the conference was manifested by the fact that scientists from over 13 countries participated and lectured at the conference. There were four keynote lectures delivered by Nobel laureate Willis Lamb, Jr., Profs. H. Walther, A.E. Siegman,and M.O. Scully. In addition, there were 34 invited lectures, 27 contributed oral presentations, and 59 poster papers. We are grateful to all the participants of the conference and the contributors of this volume. The electrical power supply is about to change; future generation will increasingly take place in and near local neighborhoods with diminishing reliance on distant power plants. The existing grid is not adapted for this purpose as it is largely a remnant from the 20th century. Can the grid be transformed into an intelligent and flexible grid that is future proof? This revised edition of Electrical Power System Essentials contains not only an accessible, broad and up-to-date overview of alternating current (AC) power systems, but also end-of-chapter exercises in every chapter, aiding readers in their understanding of the material introduced. With an original approach the book covers the generation of electric energy from thermal power plants as from renewable energy sources and treats the incorporation of power electronic devices and FACTS. Throughout there are examples and case studies that back up the theory or techniques presented. The authors set out information on mathematical modelling and equations in appendices rather than integrated in the main text. This unique approach distinguishes it from other text books on Electrical Power Systems and makes the resource highly accessible for undergraduate students and readers without a technical background directly related to power engineering. After laying out the basics for a steady-state analysis of the three-phase power system, the book examines: generation, transmission, distribution, and utilization of electric energy wind energy, solar energy and hydro power power system protection and circuit breakers power system control and operation the organization of electricity markets and the changes currently taking place system blackouts future developments in power systems, HVDC connections and smart grids The book is supplemented by a companion website from which teaching materials can be downloaded. Nanomedicine explores the modification and enhancement of the properties and performances of typical drugs to treat various diseases. Nano-based medicines have advantages in several ways, such as in nanotherapeutics, nanotheranostics, and nanodiagnostics. Nanomedicine Manufacturing and Applications effectively explores the major manufacturing techniques and applications of nanomaterial-based medicine in the areas of

chemotherapy, biochips, insulin pumps, and other treatment methods. This book explains how nanomedicines are developed from nanoparticles as well as their biomedical and other applications related to healthcare. This book is an important reference source for nanoscientists, biomaterials scientists, and biomedical engineers who want to learn more about how nano-based medicines are made and used. Outlines the process of making nanomedicine as well as nanodrug carriers, with a focus on nanomedicine for cancer treatment. Explains the formulation and manufacturing process of nanomedicines, showing how to build these materials. Demonstrates how nano-based medicines are being used to tackle a range of diseases in a way that conventional medicines cannot. This book explores the post-9/11 relations between the US and Pakistan. The growing divergence between Washington and Islamabad has taken an already uneasy alliance to a point of estrangement. Yet, a complete breakup is not an option. The underlying cause of the tension, within the partnership the two had entered on 13 September 2001, has never been fully understood. What is rarely discussed is how Pakistan's decision to ally itself with the US pushed the country into a war with itself; the cost of Pakistan's tight roping between alignment with the US and old links with the Afghan Taliban; and its long-term implications for the region and global security. This book elucidates implications for Afghanistan in the so-called war on terror while revealing US and Pakistan's foreign policy initiatives. The author explores all this through little known facts and through the players involved in this cloak and dagger game. The book tells the story behind the headlines: how equivocal is ISI's break with the Afghan Taliban fighting the coalition forces in Afghanistan; the shootout in Lahore involving a CIA agent; and the killing of Osama bin Laden. For close to 30 years, “Basic Electrical Engineering” has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand. Discusses the potential significance for the reintroduction of ancient technologies relating to agriculture and architecture in creating a healthier, more sustainable and environmentally richer planet Agronomic crops have been used to provide foods, beverages, fodders, fuels, medicines and industrial raw materials since the dawn of human civilization. Today, agronomic crops are being cultivated by employing scientific methods instead of traditional methods. However, in the current era of climate change, agronomic crops are subjected to various environmental stresses, which results in substantial yield loss. To meet the food demands of the ever-increasing global population, new technologies and management practices are being adopted to boost yield and maintain productivity under both normal and adverse conditions. Scientists are now exploring a variety of approaches to the sustainable production of agronomic crops, including varietal development, soil management, nutrient and water management, pest management, etc. Researchers have also made remarkable progress in developing stress tolerance in crops through different approaches. However, achieving optimal production to meet the increasing food demand is an open challenge. Although there have been numerous

publications on the above-mentioned problems, and despite the extensive research being conducted on them, there is hardly any comprehensive book available. In response, this book offers a timely resource, addressing all aspects of production technologies, management practices and stress tolerance in agronomic crops in a single volume. The school held at Villa Marigola, Lerici, Italy, in July 1997 was very much an educational experiment aimed not just at teaching a new generation of students the latest developments in computer simulation methods and theory, but also at bringing together researchers from the condensed matter computer simulation community, the biophysical chemistry community and the quantum dynamics community to confront the shared problem: the development of methods to treat the dynamics of quantum condensed phase systems. This volume collects the lectures delivered there. Due to the focus of the school, the contributions divide along natural lines into two broad groups: (1) the most sophisticated forms of the art of computer simulation, including biased phase space sampling schemes, methods which address the multiplicity of time scales in condensed phase problems, and static equilibrium methods for treating quantum systems; (2) the contributions on quantum dynamics, including methods for mixing quantum and classical dynamics in condensed phase simulations and methods capable of treating all degrees of freedom quantum-mechanically. Contents:Barrier Crossing: Classical Theory of Rare but Important Events (D Chandler)Monte Carlo Simulations (D Frenkel)Molecular Dynamics Methods for the Enhanced Sampling of Phase Space (B J Berne)Constrained and Nonequilibrium Molecular Dynamics (G Ciccotti & M Ferrario)From Erying to Kramers: Computation of Diffusive Barrier Crossing Rates (M J Ruiz-Montero)Monte Carlo Methods for Sampling of Rare Event States (W Janke)Proton Transfer in Ice (D Marx)Nudged Elastic Band Method for Finding Minimum Energy Paths of Transitions (H Jónsson et al.)RAW Quantum Transition State Theory (G Mills et al.)Dynamics of Peptide Folding (R Elber et al.)Theoretical Studies of Activated Processes in Biological Ion Channels (B Roux & S Crouzy)The Semiclassical Initial Value Representation for Including Quantum Effects in Molecular Dynamics Simulations (W H Miller)Tunneling in the Condensed Phase: Barrier Crossing and Dynamical Control (N Makri)Feynman Path Centroid Methods for Condensed Phase Quantum Dynamics (G A Voth)Quantum Molecular Dynamics Using Wigner Representation (V S Filinov et al.)Nonadiabatic Molecular Dynamics Methods for Diffusion (D Laria et al.)and other papers Readership: Computational and statistical physicists. Keywords:Quantum;Molecular Dynamics;DynamicsReviews: “… this volume is a useful introduction to currently popular, and widely-used techniques in chemical and statistical physics. The authors are well-respected researchers in the field and the level is appropriate to graduate students and researchers.” Journal of Statistical Physics Established in the wake of the Indo-Pakistani War of 1947-8 by the Australian army officer Major-General Walter Cawthorne, then Deputy Chief of Staff in the Pakistan Army, Pakistan's Inter-Services Intelligence (ISI) for years remained an under-developed and obscure agency. In 1979, the organisation's growing importance was felt during the Soviet war in Afghanistan , as it worked hand in glove with the CIA to support the mujahideen resistance, but its activities received little coverage in news media. Since that time, the ISI has projected its influence across the region in 1988 its involvement in Indian Kashmir came under increasing scrutiny, and by

1995 its mentoring of what became the Afghan Taliban was well attested. But it was the organisation's alleged links with Al Qaeda and the discovery of Osama bin Laden in Abbottabad, at the heart of Pakistan's military zone, that really threw it under the spotlight. These controversies and many more have dogged the ISI, including its role in Pakistan's testing of a nuclear weapon in 1998 and its links with A.Q. Khan. Offering fresh insights into the ISI as a domestic and international actor based on intimate knowledge of its inner workings and key individuals, this startlingly original book uncovers the hitherto shady world of Pakistan's secret service. This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study. 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. As future generation information technology (FGIT) becomes specialized and fr- mented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that c- bine ideas taken from multiple disciplines in order to achieve something more signi- cant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout mul- faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), D- aster Recovery and Business Continuity (DRBC; published independently), Future G- eration Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), M- timedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition

(SIP), and- and e-Service, Science and Technology (UNESST). This book features a collection of high-quality, peer-reviewed papers presented at International Conference on Ubiquitous Intelligent Systems (ICUIS 2021) organized by Shree Venkateshwara Hi-Tech Engineering College, Tamil Nadu, India, during April 16–17, 2021. The book covers topics such as cloud computing, mobile computing and networks, embedded computing frameworks, modeling and analysis of ubiquitous information systems, communication networking models, big data models and applications, ubiquitous information processing systems, next-generation ubiquitous networks and protocols, advanced intelligent systems, Internet of things, wireless communication and storage networks, intelligent information retrieval techniques, AI-based intelligent information visualization techniques, cognitive informatics, smart automation systems, healthcare informatics and bioinformatics models, security and privacy of intelligent information systems, and smart distributed information systems. Urdu for Children is the first comprehensive instructional package for teaching children Urdu as a second language. It includes a two-volume textbook, a workbook for learning the mechanics of Urdu writing, a comprehensive teacher's manual, and an audio cassette. Aimed at North American children between the ages of four and six, Urdu for Children combines traditional and whole-language instructional methods. The two-volume textbook includes forty lessons, each structured around a story or poem that reflects the theme "All About Me." This theme was chosen because children in the primary division show the greatest enthusiasm for things that relate to themselves. The methodology, outlined in the teacher's manual, was specifically designed to promote the integration of listening, speaking, reading, and writing skills; the children listen to the story or poem recorded on the audio cassette or read by the teacher, repeat it in unison, and read it from the chart. Flash cards, role-playing, and drawing are also used to reinforce vocabulary and comprehension. Developed by a team of trained school teachers with extensive backgrounds in teaching Urdu as a heritage language, Urdu for Children will help meet the needs of a rapidly growing Urdu-speaking community in North America. This widely adopted and well-established book, now in its Third Edition, provides the students of management and engineering with the latest techniques in production and operations management, considered so vital for maximizing productivity and profitability in business. What distinguishes the text is a comprehensive coverage of topics such as contract laws, capacity requirement planning, vendor evaluation including AHP method, quality function deployment, and enterprise resource planning. The new topics, which are of current interest, along with the characteristic features and easy-to-read style, would enhance the value of this text. The book is primarily intended as a text for postgraduate students of management, undergraduate students of mechanical engineering and undergraduate and postgraduate students of industrial, and production engineering courses. This profusely illustrated and well-organized text with its fine blend of theory and applications would also be useful for the practicing professionals. NEW TO THIS EDITION : Objective Type Questions at the end of each chapter Additional example problems in Chapters 5 and 17 XYZ, VED, FSN, and SDE analyses Process planning case study in Chapter 2 Case Study Questions in Chapters 2, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14, and 15 Heuristic to minimise total tardiness in single machine scheduling KEY FEATURES : Focuses on productivity related concepts and

techniques Provides solved examples at suitable places Includes sufficient tables and diagrams to illustrate the concepts Updates the reader with many efficient and modern algorithms Contains Answers to selected questions and Objective type questions Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics. The subject of power systems has assumed considerable importance in recent years and growing demand for a compact work has resulted in this book. A new chapter has been added on Neutral Grounding. For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.