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POWER SYSTEM ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer Nature **This study guide is designed for students taking courses in electric power system analysis. The textbook includes examples, questions, and exercises that will help electric power engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve students problem-solving skills and basic and advanced understanding of the topics covered in power system analysis courses. Exercises cover a wide selection of basic and advanced problems; Categorizes and orders the problems based on difficulty level, hence suitable for both knowledgeable and under-prepared students; Provides detailed and instructor-recommended solutions and methods, along with clear explanations; Can be used along with the core textbooks in electric power system analysis.**

POWER SYSTEM MODELLING AND SCRIPTING

Springer Science & Business Media **Power system modelling and scripting is a quite general and ambitious title. Of course, to embrace all existing aspects of power system modelling would lead to an encyclopedia and would be likely an impossible task. Thus, the book focuses on a subset of power system models based on the following assumptions: (i) devices are modelled as a set of nonlinear differential algebraic equations, (ii) all alternate-current devices are operating in three-phase balanced fundamental frequency, and (iii) the time frame of the dynamics of interest ranges from tenths to tens of seconds. These assumptions basically restrict the analysis to transient stability phenomena and generator controls. The modelling step is not self-sufficient. Mathematical models have to be translated into computer programming code in order to be analyzed, understood and “experienced”. It is an object of the book to provide a general framework for a power system analysis software tool and hints for filling up this framework with versatile programming code. This book is for all students and researchers that are looking for a quick reference on power system models or need some guidelines for starting the challenging adventure of writing their own code.**

SOFT COMPUTING FOR PROBLEM SOLVING

SOCPROS 2018, VOLUME 2

Springer Nature **This two-volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving, SocProS 2018. This conference was a joint technical collaboration between the Soft Computing Research Society, Liverpool Hope University (UK), and Vellore Institute of Technology (India), and brought together researchers, engineers and practitioners to discuss thought-provoking developments and challenges in order to select potential future directions. The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing, including original research papers on algorithms (artificial immune systems, artificial neural networks, genetic algorithms, genetic programming, and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real-world problems that are difficult to solve using traditional methods.**

ADVANCED ELECTRICAL CIRCUIT ANALYSIS

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer Nature **This study guide is designed for students taking advanced courses in electrical circuit analysis. The book includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student’s problem-solving skills and basic understanding of the topics covered in electric circuit analysis courses.**

TRIZ FOR ENGINEERS: ENABLING INVENTIVE PROBLEM SOLVING

John Wiley & Sons **TRIZ is a brilliant toolkit for nurturing engineering creativity and innovation. This accessible, colourful and practical guide has been developed from problem-solving workshops run by Oxford Creativity, one of the world's top TRIZ training organizations started by Gadd in 1998. Gadd has successfully introduced TRIZ to many major organisations such as Airbus, Sellafield Sites, Saint-Gobain, DCA, Doosan Babcock, Kraft, Qinetiq, Trelleborg, Rolls Royce and BAE Systems, working on diverse major projects including next generation submarines, chocolate packaging, nuclear clean-up, sustainability and cost reduction. Engineering companies are increasingly recognising and acting upon the need to encourage successful, practical and systematic innovation at every stage of the engineering process including product development and design. TRIZ enables greater clarity of thought and taps into the creativity innate in all of us, transforming random, ineffective brainstorming into targeted, audited, creative sessions focussed on the problem at hand and unlocking the engineers' knowledge and genius to identify all the relevant solutions. For good design engineers and technical directors across all industries, as well as students of engineering, entrepreneurship and innovation, TRIZ for Engineers will help unlock and realise the potential of TRIZ. The individual tools are straightforward, the problem-solving process is systematic and repeatable, and the results will speak for themselves. This highly innovative book: Satisfies the need for concise, clearly presented information together with practical advice on TRIZ and problem solving algorithms Employs explanatory techniques, processes and examples that have been used to train thousands of engineers to use TRIZ successfully Contains real, relevant and recent case studies from major blue chip companies Is illustrated throughout with specially commissioned full-colour cartoons that illustrate the various concepts and techniques and bring the theory to life Turns good engineers into great engineers.**

ELECTRICAL POWER SYSTEMS ENGINEERING

PROBLEMS AND SOLUTIONS

MULTIPLE CRITERIA DECISION ANALYSIS: STATE OF THE ART SURVEYS

Springer Science & Business Media **MULTIPLE CRITERIA DECISION ANALYSIS: State of the Art Surveys is the most comprehensive work available to survey the state of the art in MCDA to date. Its 25 chapters are organized in eight parts and are written by 52 international leading experts. Each of these parts covers one of the central streams of multiple criteria decision analysis literature. These literature streams are: MCDA today, Foundations of MCDA, Our Ranking Methods, Multiattribute Utility Theory, Non-Classical MCDA Approaches,**

Multiobjective Mathematical Programming, Applications, and MCDM Software. The handbook presents the most up-to-date discussions on well-established methodologies and theories in the field, while systematically surveying emerging fields in MCDA such as conjoint measurement, fuzzy preferences, fuzzy integrals, rough sets, etc. MULTIPLE CRITERIA DECISION ANALYSIS: State of the Art Surveys is a valuable reference volume (more than 2000 references) for the field of decision analysis. It provides graduate students, researchers, and practitioners with a sweeping survey of MCDA theory, methodologies, and applications. It is a handbook that is particularly suitable for use in seminars in Decision Analysis, Decision Support, and Decision Theory.

MANAGEMENT RESEARCH METHODOLOGY

INTEGRATION OF PRINCIPLES, METHODS AND TECHNIQUES

Pearson Education India **The subject of management research methodology is enthralling and complex. A student or a practitioner of management research is beguiled by uncertainties in the search and identification of the research problem, intrigued by the ramifications of research design, and confounded by obstacles in obtaining accurate data and complexities of data analysis. Management Research Methodology: Integration of Principles, Methods and Techniques seeks a balanced treatment of all these aspects and blends problem-solving techniques, creativity aspects, mathematical modelling and qualitative approaches in order to present the subject of Management Research Methodology in a lucid and easily understandable way.**

COMPUTER SCIENCE AND CONVERGENCE

CSA 2011 & WCC 2011 PROCEEDINGS

Springer Science & Business Media **Computer Science and Convergence is proceedings of the 3rd FTRA International Conference on Computer Science and its Applications (CSA-11) and The 2011 FTRA World Convergence Conference (FTRA WCC 2011). The topics of CSA and WCC cover the current hot topics satisfying the world-wide ever-changing needs. CSA-11 will be the most comprehensive conference focused on the various aspects of advances in computer science and its applications and will provide an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of CSA. In addition, the conference will publish high quality papers which are closely related to the various theories and practical applications in CSA. Furthermore, we expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. The main scope of CSA-11 is as follows: - Mobile and ubiquitous computing - Dependable, reliable and autonomic computing - Security and trust management - Multimedia systems and services - Networking and communications - Database and data mining - Game and software engineering - Grid, cloud and scalable computing - Embedded system and software - Artificial intelligence - Distributed and parallel algorithms - Web and internet computing - IT policy and business management WCC-11 is a major conference for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of convergence technologies. The main scope of WCC-11 is as follows: - Cryptography and Security for Converged environments - Wireless sensor network for Converged environments - Multimedia for Converged environments - Advanced Vehicular Communications Technology for Converged environments - Human centric computing, P2P, Grid and Cloud computing for Converged environments - U-Healthcare for Converged environments - Strategic Security Management for Industrial Technology - Advances in Artificial Intelligence and Surveillance Systems**

METHODOLOGIES FOR THE CONCEPTION, DESIGN, AND APPLICATION OF INTELLIGENT SYSTEMS - PROCEEDINGS OF THE 4TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING (IN 2 VOLUMES)

World Scientific **IIZUKA '96, the 4th International Conference on Soft Computing, emphasized the integration of the components of soft computing to promote the research work on post-digital computers and to realize the intelligent systems. At the conference, new developments and results in soft computing were introduced and discussed by researchers from academic, governmental, and industrial institutions.This volume presents the opening lectures by Prof. Lotfi A. Zadeh and Prof. Walter J. Freeman, the plenary lectures by seven eminent researchers, and about 200 carefully selected papers drawn from more than 20 countries. It documents current research and in-depth studies on the conception, design, and application of intelligent systems.**

COMPUTATIONAL METHODS FOR ELECTRIC POWER SYSTEMS

CRC Press **Improve Compensation Strategies for Package ShortcomingsIn today's deregulated environment, the nation's electric power network is forced to operate in a manner for which it was not designed. As a result, precision system analysis is essential to predict and continually update network operating status, estimate current power flows and bus voltages,**

FACTS

MODELLING AND SIMULATION IN POWER NETWORKS

John Wiley & Sons **The first book to provide comprehensive coverage of FACTS power systems modeling and simulation. * Detailed coverage of the development of FACTS controllers and guidance on the selection of appropriate equipment * Computer modelling examples of the FACTS controllers for steady-state and transient stability systems * Numerous case studies and practical examples**

THE DATA-DRIVEN SCHOOL

COLLABORATING TO IMPROVE STUDENT OUTCOMES

Guilford Publications **This indispensable practitioner's guide helps to build the capacity of school psychologists, administrators, and teachers to use data in collaborative decision making. It presents an applied, step-by-step approach for creating and running effective data teams within a problem-solving framework. The authors describe innovative ways to improve academic and behavioral outcomes at the individual, class, grade, school, and district levels. Applications of readily available technology tools are highlighted. In a large-size format with lay-flat binding for easy photocopying, the book includes learning activities and helpful reproducible forms. Purchasers can download and print the reproducible forms, as well as access Excel spreadsheets and PowerPoint slides related to the book, at the companion website. This book is in The Guilford Practical Intervention in the Schools Series, edited by Sandra M. Chafouleas.**

ENERGY RESEARCH ABSTRACTS

ANALYSIS, DESIGN & EVALUATION OF MAN-MACHINE SYSTEMS

PROCEEDINGS OF THE 2ND IFAC/IFIP/IFORS/IEA CONFERENCE, VERESE, ITALY, 10-12 SEPTEMBER 1985

Elsevier **Provides a valuable overview of human-machine interaction in technological systems, with particular emphasis on recent advances in theory, experimental and analytical research, and applications related to man-machine systems. Topics covered include: Automation and Operator - task analysis, decision support, task allocation, management decision support, supervisory control, artificial intelligence, training and teaching, expert knowledge; System Concept and Design - software ergonomics, fault diagnosis, safety, design concepts; Man-machine Interface - interface design, graphics and vision, user adaptive interfaces; Systems Operation - process industry, electric power, aircraft, surface transport, prostheses and manual control. Contains 53 papers and three discussion sessions.**

POWER SYSTEM ANALYSIS AND DESIGN, SI EDITION

Cengage Learning **Today's readers learn the basic concepts of power systems as they master the tools necessary to apply these skills to real world situations with POWER SYSTEM ANALYSIS AND DESIGN, 6E. This new edition highlights physical concepts while also giving necessary attention to mathematical techniques. The authors develop both theory and modeling from simple beginnings so readers are prepared to readily extend these principles to new and complex situations. Software tools and the latest content throughout this edition aid readers with design issues while reflecting the most recent trends in the field. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.**

INFORMATION SYSTEMS ENGINEERING

AN INTRODUCTION

Springer Science & Business Media **This book presents a selection of subjects which the authors deem to be important for information systems engineers. The book is intended for introductory teaching. We have tried to write the book in such a way that students with only fragmented knowledge of computers are able to read the book without too many difficulties. Students who have had only an intro ductory course in computer programming should be able to read most of the book. We have tried to achieve simplicity without compromising on depth in our discussions of the various aspects of information systems engineering. So it is our hope that also those who have deeper knowledge in computing may find pleasure in reading parts of the book. The writing of a textbook is a major undertaking for its authors. One is quite often forced to reexamine truisms in the subject area, and must be prepared to reevaluate one's opinions and priorities as one learns more. In particular this is so in new fields, where formalisms have been scarcely used, and where consensus has not yet emerged either on what constitutes the subject area or on how practical problems within the field shall be approached. Contemporary practice in computer applications is confronted with an increasingly complex world, both in a technical sense and in the complexity of problems that are solved by computer.**

ELECTRICAL POWER SYSTEMS

ANALYSIS, SECURITY AND DEREGULATION

PHI Learning Pvt. Ltd. **This textbook introduces electrical engineering students to the most relevant concepts and techniques in three major areas today in power system engineering, namely analysis, security and deregulation. The book carefully integrates theory and practical applications. It emphasizes power flow analysis, details analysis problems in systems with fault conditions, and discusses transient stability problems as well. In addition, students can acquire software development skills in MATLAB and in the usage of state-of-the-art software tools such as Power World Simulator (PWS) and Siemens PSS/E. In any energy management/operations control centre, the knowledge of contingency analysis, state estimation and optimal power flow is of utmost importance. Part 2 of the book provides comprehensive coverage of these topics. The key issues in electricity deregulation and restructuring of power systems such as Transmission Pricing, Available Transfer Capability (ATC), and pricing methods in the context of Indian scenario are discussed in detail in Part 3 of the book. The book is interspersed with problems for a sound understanding of various aspects of power systems. The questions at the end of each chapter are provided to reinforce the knowledge of students as well as prepare them from the examination point of view. The book will be useful to both the undergraduate students of electrical engineering and postgraduate students of power engineering and power management in several courses such as Power System Analysis, Electricity Deregulation, Power System Security, Restructured Power Systems, as well as laboratory courses in Power System Simulation.**

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

PROCEEDINGS OF THE NATIONAL SEMINAR ON APPLIED SYSTEMS ENGINEERING AND SOFT COMPUTING

Allied Publishers

INTELLIGENT TUTORING SYSTEMS

SECOND INTERNATIONAL CONFERENCE, ITS '92, MONTREAL, CANADA, JUNE 10-12, 1992. PROCEEDINGS

Springer Science & Business Media **This volume of the Encyclopaedia offers a systematic introduction and a comprehensive survey of the theory of complex spaces. It covers topics like semi-normal complex spaces, cohomology, the Levi problem, q-convexity and q-concavity. It is the first survey of this kind. The authors are internationally known outstanding experts who developed substantial parts of the field. The book contains seven chapters and an introduction written by Remmert, describing the history of the subject. The book will be very useful to graduate students and researchers in complex analysis, algebraic geometry and differential geometry. Another group of readers will consist of mathematical physicists who apply results from these fields.**

APPLICATIONS OF EVOLUTIONARY COMPUTING

16TH EUROPEAN CONFERENCE, EVOAPPLICATIONS 2013, VIENNA, AUSTRIA, APRIL 3-5, 2013, PROCEEDINGS

Springer **This book constitutes the refereed proceedings of the International Conference on the Applications of Evolutionary Computation, EvoApplications 2013, held in Vienna, Austria, in April 2013, colocated with the Evo* 2013 events EuroGP, EvoCOP, EvoBIO, and EvoMUSART. The 65 revised full papers presented were carefully reviewed and selected from 119 submissions. EvoApplications 2013 consisted of the following 12 tracks: EvoCOMNET (nature-inspired techniques for telecommunication networks and other parallel and distributed systems), EvoCOMPLEX (evolutionary algorithms and complex systems), EvoENERGY (evolutionary computation in energy applications), EvoFIN (evolutionary and natural computation in finance and economics), EvoGAMES (bio-inspired algorithms in games), EvoIASP (evolutionary computation in image analysis, signal processing, and pattern recognition), EvoINDUSTRY (nature-inspired techniques in industrial settings), EvoNUM (bio-inspired algorithms for continuous parameter optimization), EvoPAR (parallel implementation of evolutionary algorithms), EvoRISK (computational intelligence for risk management, security and defence applications), EvoROBOT (evolutionary computation in robotics), and EvoSTOC (evolutionary algorithms in stochastic and dynamic environments).**

HANDBOOK OF FAMILY THERAPY

Routledge **First published in 1992. Routledge is an imprint of Taylor & Francis, an informa company.**

FEEDBACK CONTROL SYSTEMS ANALYSIS AND DESIGN

PRACTICE PROBLEMS, METHODS, AND SOLUTIONS

Springer **This study guide is designed for students taking courses in feedback control systems analysis and design. The textbook includes examples, questions, and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom. Offering detailed solutions, multiple methods for solving problems, and clear explanations of concepts, this hands-on guide will improve student’s problem-solving skills and basic and advanced understanding of**

the topics covered in these courses.

SELECTED WATER RESOURCES ABSTRACTS

SMART GRIDS: SECURITY AND PRIVACY ISSUES

Springer **This book provides a thorough treatment of privacy and security issues for researchers in the fields of smart grids, engineering, and computer science. It presents comprehensive insight to understanding the big picture of privacy and security challenges in both physical and information aspects of smart grids. The authors utilize an advanced interdisciplinary approach to address the existing security and privacy issues and propose legitimate countermeasures for each of them in the standpoint of both computing and electrical engineering. The proposed methods are theoretically proofed by mathematical tools and illustrated by real-world examples.**

CALCULATION OF CRITICAL DISTANCE IN FAULTED MESHED POWER SYSTEM

Faults studies form an important part of power system analysis. The problem consists of determining bus voltages and line currents during various types of faults. If the fault location is known the problem can be easily solved. But if the fault location is unknown, it is difficult to solve the problem. If the fault location is known the problem can be easily solved. But if the fault location is unknown, it is difficult to solve the problem. There were attempts to find the critical distance of a fault that will cause certain per-defined voltage dip at certain bus, and the problem was easy to be solved in radial systems, but yet non of the existing researches could provide proper solution for finding the critical distance of the fault at certain line that will cause predefined voltage dip magnitude at certain bus in meshed power system. The paper provided proper solution based in Gauess Seidal to find the critical distance in meshed power system

PROBLEM ANALYSIS

RESPONDING TO SCHOOL COMPLEXITY

Eye On Education **Encourages school principals to move beyond bureaucratic thinking and conventional wisdom to creatively reflect on and find solutions to school problems, and illustrates concepts with cases and vignettes. Subjects include problem analysis in education, problem finding and problem solving, and leadership in decisions. Includes activities and exercises. Annotation copyrighted by Book News, Inc., Portland, OR**

HANDBOOK OF RESEARCH ON INDUSTRIAL INFORMATICS AND MANUFACTURING INTELLIGENCE: INNOVATIONS AND SOLUTIONS

INNOVATIONS AND SOLUTIONS

IGI Global **"This book is the best source for the most current, relevant, cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication, intelligence, and manufacturing processes"--Provided by publisher.**

UNIFYING ELECTRICAL ENGINEERING AND ELECTRONICS ENGINEERING

PROCEEDINGS OF THE 2012 INTERNATIONAL CONFERENCE ON ELECTRICAL AND ELECTRONICS ENGINEERING

Springer Science & Business Media **Unifying Electrical Engineering and Electronics Engineering is based on the Proceedings of the 2012 International Conference on Electrical and Electronics Engineering (ICEE 2012). This book collects the peer reviewed papers presented at the conference. The aim of the conference is to unify the two areas of Electrical and Electronics Engineering. The book examines trends and techniques in the field as well as theories and applications. The editors have chosen to include the following topics; biotechnology, power engineering, superconductivity circuits, antennas technology, system architectures and telecommunication.**

ENERGY ABSTRACTS FOR POLICY ANALYSIS

6GN FOR FUTURE WIRELESS NETWORKS

4TH EAI INTERNATIONAL CONFERENCE, 6GN 2021, HUIZHOU, CHINA, OCTOBER 30–31, 2021, PROCEEDINGS

Springer Nature

ADVANCED NUCLEAR SYSTEMS CONSUMING EXCESS PLUTONIUM

Springer Science & Business Media **A survey of recent developments in the field of plutonium disposal by the application of advanced nuclear systems, both critical and subcritical. Current national R&D plans are summarized. The actinide-fuelled critical reactors are associated with control problems, since they tend to have a small delayed neutron fraction coupled with a small Doppler effect and a positive void coefficient. Current thinking is turning to accelerator-driven subcritical systems for the transmutation of actinides. The book's conclusion is that the various systems proposed are technically feasible, even though not yet technically mature. The book presents a unique summary and evaluation of all relevant possibilities for burning surplus plutonium, presented by experts from a variety of different disciplines and interests, including the defence establishment. The obvious issue - the non-proliferation of nuclear weapons - is vital, but the matter represents a complex technological challenge that also requires an assessment in economic terms.**

TEACHING AND LEARNING IN A DIGITAL WORLD

PROCEEDINGS OF THE 20TH INTERNATIONAL CONFERENCE ON INTERACTIVE COLLABORATIVE LEARNING – VOLUME 2

Springer **This book gathers the Proceedings of the 20th International Conference on Interactive Collaborative Learning (ICL2017), held in Budapest, Hungary on 27–29 September 2017. The authors are currently witnessing a significant transformation in the development of education. The impact of globalisation on all areas of human life, the exponential acceleration of technological developments and global markets, and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general, but especially in engineering education. To face these current real-world challenges, higher education has to find innovative ways to quickly respond to them. Since its inception in 1998, this conference has been devoted to new approaches in learning with a focus on collaborative learning. Today the ICL conferences offer a forum for exchange concerning relevant trends and research results, and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context.**

PROCEEDINGS OF THE SYMPOSIUM ON CIRCUIT ANALYSIS

UNIVERSITY OF ILLINOIS, URBANA, ILLINOIS, 1955

FOSSIL ENERGY UPDATE

POWER SYSTEM ANALYSIS AND DESIGN

Brooks/Cole **The objective of this book is to present methods of power system analysis and design, particularly with the aid of a personal computer, in sufficient depth to give the student the basic theory at the undergraduate level.**

ILLUSTRATED STUDY GUIDE FOR THE NCLEX-RN® EXAM EBOOK

Elsevier Health Sciences **Who says studying for the NCLEX® can’t be fun? Illustrated Study Guide for the NCLEX-RN® Exam, 11th Edition uses colorful drawings and mnemonic cartoons to help you review and remember the nursing content found on the NCLEX-RN examination. A concise outline format makes it easier to study key facts, principles, and applications of the nursing process. More than 2,500 NCLEX exam-style questions on the Evolve website allow you to create practice exams, identify your strengths and weaknesses, and review answers and rationales. Written by noted NCLEX expert JoAnn Zerwekh, this study guide provides a visual, unintimidating way to prepare for success on the NCLEX-RN exam. More than 2,500 review questions on the Evolve website allow you to practice test-taking in Study or Exam mode. UNIQUE! Mnemonic cartoons provide a fun, easy way to review and remember key nursing concepts and disease processes. UNIQUE! Integrated systems approach incorporates pediatric, adult, and older adult lifespan considerations for basic nursing care concepts. UNIQUE! Appendixes in each chapter summarize diagnostic tests, medications, and nursing procedures for quick reference. Answers and rationales are provided for all review questions. Alternate item format questions on Evolve prepare you for the interactive question types on the NCLEX examination, including priority, drag-and-drop, and hot-spot questions. Priority Concepts at the beginning of each chapter focus your attention on the chapter’s key nursing concepts. Nursing Priority boxes make it easier to distinguish priorities of nursing care. Test Alert boxes highlight concepts frequently found on the NCLEX test plan. Pharmacology tables make key drug information easy to find, with high-alert medications noted by a special icon. Special icons distinguish pediatric and adult disorders, and identify Self-Care and Home Care content. NEW! Patient Scenarios and Next Generation NCLEX® (NGN) Examination-Style question types on the Evolve website provide practice with these new types of questions. NEW! Review of the NCSBN’s clinical judgment model and six cognitive skills helps to prepare you for the nursing profession and taking the NCLEX-RN® examination. NEW! Pediatric content is moved into a separate new chapter and organized by body systems.**

UNCONSTRAINED ORGANISATIONS

MANAGING SUSTAINABLE CHANGE : UNLOCKING THE POTENTIAL OF PEOPLE WITHIN ORGANISATIONS

Thomas Telford **Every organisation faces constraints which may seem insurmountable. The Theory of Constraints argues that the number of constraints is limited and can be identified through the application of a robust and logical thinking process. Having found the constraint, developed the solution and the implementation plan, it would appear that the organisation has solved the problem, but this is often not the case. This innovative book describes the author's investigation into the surprising fact that often the expected results do not materialise once companies have identified the way forward.**

ELECTRIC POWER SYSTEMS

CRC Press **The field of electrical engineering has become increasingly diversified, resulting in a spectrum of emerging topics - from microelectromechanics to light-wave technology. Keeping pace with progressing technology, and covering the scope of related subjects, Electric Power Systems provides introductory, fundamental knowledge in several areas. The text focuses on three major points: Power flow Fault calculations Power systems stability Using commercially available software packages, Electric Power Systems includes illustrative computer solutions for both utility and industrial systems. Chapters discuss: basic concepts relating to power and energy ac circuit analysis - emphasizing three-phase circuits various components of a power system and their simplified models single-line and reactance diagrams representing a power system with the interconnecting components power flow balanced and unbalanced fault calculations power system protection analytical and numerical solutions to power system stability problems economic power dispatch and control of power systems Written in a clear, lively style, Electric Power Systems illustrates its concepts and methods with many examples, inspired by real-life applications. This work exceptionally fills the need for a textbook teaching the subject in a one-semester sequence.**