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KEY=SYSTEM - SAMIR STEPHANY

POWER SYSTEM ANALYSIS AND DESIGN

Cengage Learning The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to aid them in applying these skills to real world situations. Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect 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.

POWER SYSTEM ANALYSIS

McGraw-Hill This is an introduction to power system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK throughout.

POWER SYSTEM DYNAMICS AND STABILITY

Stipes Pub Llc

POWER SYSTEM ANALYSIS

SHORT-CIRCUIT LOAD FLOW AND HARMONICS, SECOND EDITION

CRC Press Fundamental to the planning, design, and operating stages of any electrical engineering endeavor, power system analysis continues to be shaped by dramatic advances and improvements that reflect today's changing energy needs. Highlighting the latest directions in the field, Power System Analysis: Short-Circuit Load Flow and Harmonics, Second Edition includes investigations into arc flash hazard analysis and its migration in electrical systems, as well as wind power generation and its integration into utility systems. Designed to illustrate the practical application of power system analysis to real-world problems, this book provides detailed descriptions and models of major electrical equipment, such as transformers, generators, motors, transmission lines, and power cables. With 22 chapters and 7 appendices that feature new figures and mathematical equations, coverage includes: Short-circuit analyses, symmetrical components, unsymmetrical faults, and matrix methods Rating structures of breakers Current interruption in AC circuits, and short-circuiting of rotating machines Calculations according to the new IEC and ANSI/IEEE standards and methodologies Load flow, transmission lines and cables, and reactive power flow and control Techniques of optimization, FACT controllers, three-phase load flow, and optimal power flow A step-by-step guide to harmonic generation and related analyses, effects, limits, and mitigation, as well as new converter topologies and practical harmonic passive filter designs—with examples More than 2000 equations and figures, as well as solved examples, cases studies, problems, and references Maintaining the structure, organization, and simplified language of the first edition, longtime power system engineer J.C. Das seamlessly melds coverage of theory and practical applications to explore the most commonly required short-circuit, load-flow, and harmonic analyses. This book requires only a beginning knowledge of the per-unit system, electrical circuits and machinery, and matrices, and it offers significant updates and additional information, enhancing technical content and presentation of subject matter. As an instructional tool for computer simulation, it uses numerous examples and problems to present new insights while making readers comfortable with procedure and methodology.

ADVANCES IN COMMUNICATION, DEVICES AND NETWORKING

PROCEEDINGS OF ICCDN 2018

Springer The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2–3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

ELECTRICAL POWER SYSTEM ANALYSIS

AJAYA

EPIC OF THE KAURAVA CLAN -ROLL OF THE DICE

One Point Six Technology Pvt Ltd THE MAHABHARATA ENDURES AS THE GREAT EPIC OF INDIA. But while Jaya is the story of the Pandavas, told from the perspective of the victors of Kurukshetra; Ajaya is the narrative of the ÔunconquerableÕ Kauravas, who were decimated to the last man. At the heart of IndiaÕs most powerful empire, a revolution is brewing. Bhishma, the noble patriarch of Hastinapura, is struggling to maintain the unity of his empire. On the throne sits Dhritarashtra, the blind King, and his foreign-born Queen Ð Gandhari. In the shadow of the throne stands Kunti, the Dowager-Queen, burning with ambition to see her firstborn become the ruler, acknowledged by all. And in the wings: Parashurama, the enigmatic Guru of the powerful Southern Confederate, bides his time to take over and impose his will from mountains to ocean. Ekalavya, a young Nishada, yearns to break free of caste restrictions and become a warrior. Karna, son of a humble charioteer, travels to the South to study under the foremost Guru of the day and become the greatest archer in the land. Balarama, the charismatic leader of the Yadavas, dreams of building the perfect city by the sea and seeing his people prosperous and proud once more. Takshaka, guerilla leader of the Nagas, foments a revolution by the downtrodden as he lies in wait in the jungles of India, where survival is the only dharma. Jara, the beggar, and his blind dog Dharma, walk the dusty streets of India, witness to people and events far greater than they, as the Pandavas and the Kauravas confront their searing destinies. Amidst the chaos, Prince Suyodhana, heir of Hastinapura, stands tall, determined to claim his birthright and act according to his conscience. He is the maker of his own destiny Ð or so he believes. While in the corridors of the Hastinapura palace, a foreign Prince plots to destroy India. And the dice fallsÉ

POWER SYSTEM ANALYSIS

McGraw-Hill Science Engineering This updated edition includes: coverage of power-system estimation, including current developments in the field; discussion of system control, which is a key topic covering economic factors of line losses and penalty factors; and new problems and examples throughout.

POWER SYSTEM ANALYSIS

John Wiley & Sons Incorporated Provides a basic comprehensive treatment of the major electrical engineering problems associated with the design and operation of electric power systems. The major components of the power system are modeled in terms of their sequence (symmetrical component) equivalent circuits. Reviews power flow, fault analysis, economic dispatch, and transient stability in power systems.

THE CASE FOR MARRIAGE

WHY MARRIED PEOPLE ARE HAPPIER, HEALTHIER AND BETTER OFF FINANCIALLY

Crown A groundbreaking look at marriage, one of the most basic and universal of all human institutions, which reveals the emotional, physical, economic, and sexual benefits that marriage brings to individuals and society as a whole. The Case for Marriage is a critically important intervention in the national debate about the future of family. Based on the authoritative research of family sociologist Linda J. Waite, journalist Maggie Gallagher, and a number of other scholars, this book's findings dramatically contradict the anti-marriage myths that have become the common sense of most Americans. Today a broad consensus holds that marriage is a bad deal for women, that divorce is better for children when parents are unhappy, and that marriage is essentially a private choice, not a public

institution. Waite and Gallagher flatly contradict these assumptions, arguing instead that by a broad range of indices, marriage is actually better for you than being single or divorced– physically, materially, and spiritually. They contend that married people live longer, have better health, earn more money, accumulate more wealth, feel more fulfillment in their lives, enjoy more satisfying sexual relationships, and have happier and more successful children than those who remain single, cohabit, or get divorced. The Case for Marriage combines clearheaded analysis, penetrating cultural criticism, and practical advice for strengthening the institution of marriage, and provides clear, essential guidelines for reestablishing marriage as the foundation for a healthy and happy society. "A compelling defense of a sacred union. The Case for Marriage is well written and well argued, empirically rigorous and learned, practical and commonsensical." -- William J. Bennett, author of The Book of Virtues "Makes the absolutely critical point that marriage has been misrepresented and misunderstood." -- The Wall Street Journal www.broadwaybooks.com

THE PROTECTION OF NON-TRADITIONAL TRADEMARKS

CRITICAL PERSPECTIVES

Oxford University Press This volume offers a detailed analysis of the issues related to the protection of non-traditional marks. In recent years, the domain of trademark law and the scope of trademark protection has grown exponentially. Today, a wide variety of non-traditional marks, including colour, sound, smell, and shape marks, can be registered in many jurisdictions. However, this expansion of trademark protection has led to heated discussions and controversies about the impact of the protection of non-traditional marks on freedom of competition and, more generally, on socially valuable use of these or similar signs in unrelated non-commercial contexts. These tensions have also led to increasing litigation in this area across several jurisdictions. This book provides an overview of the debate and state of the law surrounding non-traditional marks at the international, regional, and national level. In particular, this book addresses relevant international treaties administered by the World Intellectual Property Organization (WIPO) and the Agreement on Trade-Related Aspects to Intellectual Property Rights (TRIPS) as well as several regional and national legislations and leading judicial decisions in order to examine current law and practice culminating in critical reflections and suggestions on the topic. This is an open access title available under the terms of a CC BY-NC-ND 3.0 licence. It is free to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations.

OPTIMAL DESIGN OF WATER DISTRIBUTION NETWORKS

Alpha Science Int'l Ltd. Design of water distribution networks is traditionally based on trial-and-approach in which the designer assumes, based on experience and judgment, sizes of different elements and successively modifies them until a network with satisfactory hydraulic performance is obtained. This text covers: - Essential hydraulic, economic optimization principles. - Theory is developed gradually for optimal design of simple, single-source branched networks subjected to single loading to complex, multiple-source looped networks subjected to multiple loading. - Strengthening and expansion of existing networks and also reliability-based design. - Several illustrative examples enabling the reader to apply them in practice- approximately 100 line drawings.

AI AND EDUCATION

A GUIDANCE FOR POLICYMAKERS

UNESCO Publishing Artificial Intelligence (AI) has the potential to address some of the biggest challenges in education today, innovate teaching and learning practices, and ultimately accelerate the progress towards SDG 4. However, these rapid technological developments inevitably bring multiple risks and challenges, which have so far outpaced policy debates and regulatory frameworks. This publication offers guidance for policy-makers on how best to leverage the opportunities and address the risks, presented by the growing connection between AI and education. It starts with the essentials of AI: definitions, techniques and technologies. It continues with a detailed analysis of the emerging trends and implications of AI for teaching and learning, including how we can ensure the ethical, inclusive and equitable use of AI in education, how education can prepare humans to live and work with AI, and how AI can be applied to enhance education. It finally introduces the challenges of harnessing AI to achieve SDG 4 and offers concrete actionable recommendations for policy-makers to plan policies and programmes for local contexts. [Publisher summary, ed]

COMPUTATIONAL INTELLIGENCE FOR MISSING DATA IMPUTATION, ESTIMATION, AND MANAGEMENT: KNOWLEDGE OPTIMIZATION TECHNIQUES

KNOWLEDGE OPTIMIZATION TECHNIQUES

IGI Global "This book is for those who use data analysis to build decision support systems, particularly engineers, scientists and statisticians"--Provided by publisher.

ELEMENTS OF POWER SYSTEM ANALYSIS

RECURRENT NEURAL NETWORKS FOR SHORT-TERM LOAD FORECASTING

AN OVERVIEW AND COMPARATIVE ANALYSIS

Springer The key component in forecasting demand and consumption of resources in a supply network is an accurate prediction of real-valued time series. Indeed, both service interruptions and resource waste can be reduced with the implementation of an effective forecasting system. Significant research has thus been devoted to the design and development of methodologies for short term load forecasting over the past decades. A class of mathematical models, called Recurrent Neural Networks, are nowadays gaining renewed interest among researchers and they are replacing many practical implementations of the forecasting systems, previously based on static methods. Despite the undeniable expressive power of these architectures, their recurrent nature complicates their understanding and poses challenges in the training procedures. Recently, new important families of recurrent architectures have emerged and their applicability in the context of load forecasting has not been investigated completely yet. This work performs a comparative study on the problem of Short-Term Load Forecast, by using different classes of state-of-the-art Recurrent Neural Networks. The authors test the reviewed models first on controlled synthetic tasks and then on different real datasets, covering important practical cases of study. The text also provides a general overview of the most important architectures and defines guidelines for configuring the recurrent networks to predict real-valued time series.

POWER SYSTEM ENGINEERING

Enlarged and revised chapter 1 on introduction to Power System Analysis New chapters on Voltage Stability Underground Cables Insulators for Overhead Lines Mechanical Design of Transmission Lines Neutral Grounding Corona High Voltage DC (HVDC) Transmisson.

REPRESENTATION LEARNING FOR NATURAL LANGUAGE PROCESSING

Springer Nature This open access book provides an overview of the recent advances in representation learning theory, algorithms and applications for natural language processing (NLP). It is divided into three parts. Part I presents the representation learning techniques for multiple language entries, including words, phrases, sentences and documents. Part II then introduces the representation techniques for those objects that are closely related to NLP, including entity-based world knowledge, sememe-based linguistic knowledge, networks, and cross-modal entries. Lastly, Part III provides open resource tools for representation learning techniques, and discusses the remaining challenges and future research directions. The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning, social network analysis, semantic Web, information retrieval, data mining and computational biology. This book is intended for advanced undergraduate and graduate students, post-doctoral fellows, researchers, lecturers, and industrial engineers, as well as anyone interested in representation learning and natural language processing.

MACLEOD'S CLINICAL EXAMINATION E-BOOK

Elsevier Health Sciences This classic textbook sets out clearly and concisely how to evaluate symptoms and elicit relevant physical signs. It describes the practical skills which every clinician must acquire and develop in order to evolve diagnostic procedures and management strategies and plans. 'Highly Commended' in the 2006 and 2010 BMA Medical Book Competitions, this Thirteenth Edition contains over 500 clinical photographs and diagrams to illustrate the text, with new topics added to make the book even more comprehensive. This Thirteenth Edition has four sections: History taking and general examination. System examination covering symptoms and signs. Examination in special situations including babies & children and the critically ill. How to pass an OSCE. Included on the Student Consult site are the specially-recorded videos demonstrating many of the clinical examination routines described in the main text. The book starts with a general overview section on history taking and the general examination that provide the framework on which to hang the detail. The systematic examination section documents clearly the relevant history, examination and special investigations as well as giving advice on their significance. The third section covers examination in specific situations and emphasises an integrated and structured approach to these patients. A final section spells out how to demonstrate the techniques learned in the book in an OSCE. Macleod's is closely linked to its sister publication, Davidson's Principles & Practice of Medicine, which complements the information in this text. Available with full online access on Student Consult and ancillary videos demonstrating key clinical examination routines following the format laid out in the book. There are two new chapters on examination in specific situations: The frail elderly The adult with fever A new section explicitly spells out how to demonstrate the techniques learned in the book in an OSCE and other formative and summative examinations. Over 50 new text boxes highlight the evidence-base for the examination techniques discussed. An Advisory Board of students, junior doctors, and representatives from the nursing, ambulance, Primary Care and academic communities from six countries has made detailed comments and critically appraised the entire book. The text has been substantially rewritten with more on medically unexplained symptoms in the History Taking chapter and extended coverage of diabetes mellitus in the Endocrine System chapter. Integrated with the online text are clinical examination

videos of trained professionals performing many of the examination routines described in the book with an accompanying commentary by the Editor, Professor Colin Robertson Two new videos show how the Glasgow Coma Scale should be performed in clinical situations, demonstrating the correct techniques and also common pitfalls in using the GCS.

PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE IN OCEAN ENGINEERING (ICOE2018)

VOLUME 2

Springer This book comprises selected proceedings of the Fourth International Conference in Ocean Engineering (ICOE2018), focusing on emerging opportunities and challenges in the field of ocean engineering and offshore structures. It includes state-of-the-art content from leading international experts, making it a valuable resource for researchers and practicing engineers alike.

PROGRAM SYNTHESIS

Program synthesis is the task of automatically finding a program in the underlying programming language that satisfies the user intent expressed in the form of some specification. Since the inception of artificial intelligence in the 1950s, this problem has been considered the holy grail of Computer Science. Despite inherent challenges in the problem such as ambiguity of user intent and a typically enormous search space of programs, the field of program synthesis has developed many different techniques that enable program synthesis in different real-life application domains. It is now used successfully in software engineering, biological discovery, compute-raided education, end-user programming, and data cleaning. In the last decade, several applications of synthesis in the field of programming by examples have been deployed in mass-market industrial products. This monograph is a general overview of the state-of-the-art approaches to program synthesis, its applications, and subfields. It discusses the general principles common to all modern synthesis approaches such as syntactic bias, oracle-guided inductive search, and optimization techniques. We then present a literature review covering the four most common state-of-the-art techniques in program synthesis: enumerative search, constraint solving, stochastic search, and deduction-based programming by examples. It concludes with a brief list of future horizons for the field.

THE ZYNQ BOOK

EMBEDDED PROCESSING WITH THE ARM CORTEX-A9 ON THE XILINX ZYNQ-7000 ALL PROGRAMMABLE SOC

This book is about the Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-A9 processor with traditional FPGA logic fabric. Catering for both new and experienced readers, it covers fundamental issues in an accessible way, starting with a clear overview of the device architecture, and an introduction to the design tools and processes for developing a Zynq SoC. Later chapters progress to more advanced topics such as embedded systems development, IP block design and operating systems. Maintaining a 'real-world' perspective, the book also compares Zynq with other device alternatives, and considers end-user applications. The Zynq Book is accompanied by a set of practical tutorials hosted on a companion website. These tutorials will guide the reader through first steps with Zynq, following on to a complete, audio-based embedded systems design.

FUZZY COGNITIVE MAPS AND NEUTROSOPHIC COGNITIVE MAPS

Infinite Study In a world of chaotic alignments, traditional logic with its strict boundaries of truth and falsity has not imbued itself with the capability of reflecting the reality. Despite various attempts to reorient logic, there has remained an essential need for an alternative system that could infuse into itself a representation of the real world. Out of this need arose the system of Neutrosophy (the philosophy of neutralities, introduced by FLORENTIN SMARANDACHE), and its connected logic Neutrosophic Logic, which is a further generalization of the theory of Fuzzy Logic. In this book we study the concepts of Fuzzy Cognitive Maps (FCMs) and their Neutrosophic analogue, the Neutrosophic Cognitive Maps (NCMs). Fuzzy Cognitive Maps are fuzzy structures that strongly resemble neural networks, and they have powerful and far-reaching consequences as a mathematical tool for modeling complex systems. Neutrosophic Cognitive Maps are generalizations of FCMs, and their unique feature is the ability to handle indeterminacy in relations between two concepts thereby bringing greater sensitivity into the results. Some of the varied applications of FCMs and NCMs which has been explained by us, in this book, include: modeling of supervisory systems; design of hybrid models for complex systems; mobile robots and in intimate technology such as office plants; analysis of business performance assessment; formalism debate and legal rules; creating metabolic and regulatory network models; traffic and transportation problems; medical diagnostics; simulation of strategic planning process in intelligent systems; specific language impairment; web-mining inference application; child labor problem; industrial relations: between employer and employee, maximizing production and profit; decision support in intelligent intrusion detection system; hyper-knowledge representation in strategy formation; female infanticide; depression in terminally ill patients and finally, in the theory of community mobilization and women empowerment relative to the AIDS epidemic.

ADVANCED HYDROINFORMATIC TECHNIQUES FOR THE SIMULATION AND ANALYSIS OF WATER SUPPLY AND DISTRIBUTION SYSTEMS

MDPI This book is a printed edition of the Special Issue "Advanced Hydroinformatic Techniques for the Simulation and Analysis of Water Supply and Distribution Systems" that was published in Water

APPLICATIONS OF ARTIFICIAL INTELLIGENCE TECHNIQUES IN ENGINEERING

SIGMA 2018, VOLUME 2

Springer The book is a collection of high-quality, peer-reviewed innovative research papers from the International Conference on Signals, Machines and Automation (SIGMA 2018) held at Netaji Subhas Institute of Technology (NSIT), Delhi, India. The conference offered researchers from academic and industry the opportunity to present their original work and exchange ideas, information, techniques and applications in the field of computational intelligence, artificial intelligence and machine intelligence. The book is divided into two volumes discussing a wide variety of industrial, engineering and scientific applications of the emerging techniques.

POWER SYSTEM ANALYSIS

Power System Analysis provides the basic fundamentals of power system analysis with detailed illustrations and explanations. Throughout the book, carefully chosen examples are given with a systematic approach to have a better understanding of the text discussed. It presents the topics of power system analysis including power system modeling, load flow studies, symmetrical and unsymmetrical fault analyses, stability analysis, etc. The book is principally designed as a self-study material for electrical engineering students.* Cogent and lucid style of presentation.* Clear explanations of concepts with appropriate illustrations.* Examples with detailed explanations.* Systematic, step-by-step approach to solved problems.* Short-answer questions to recapitulate the basics.* Exercises at the end of each chapter for self-practice.* Solution to university questions for better scoring.

ELECTRIC ENERGY SYSTEMS

ANALYSIS AND OPERATION

CRC Press Electric Energy Systems, Second Edition provides an analysis of electric generation and transmission systems that addresses diverse regulatory issues. It includes fundamental background topics, such as load flow, short circuit analysis, and economic dispatch, as well as advanced topics, such as harmonic load flow, state estimation, voltage and frequency control, electromagnetic transients, etc. The new edition features updated material throughout the text and new sections throughout the chapters. It covers current issues in the industry, including renewable generation with associated control and scheduling problems, HVDC transmission, and use of synchrophasors (PMUs). The text explores more sophisticated protections and the new roles of demand, side management, etc. Written by internationally recognized specialists, the text contains a wide range of worked out examples along with numerous exercises and solutions to enhance understanding of the material. Features Integrates technical and economic analyses of electric energy systems. Covers HVDC transmission. Addresses renewable generation and the associated control and scheduling problems. Analyzes electricity markets, electromagnetic transients, and harmonic load flow. Features new sections and updated material throughout the text. Includes examples and solved problems.

ICORD'13

GLOBAL PRODUCT DEVELOPMENT

Springer Science & Business Media This book showcases over 100 cutting-edge research papers from the 4th International Conference on Research into Design (ICoRD'13) – the largest in India in this area – written by eminent researchers from over 20 countries, on the design process, methods and tools, for supporting global product development (GPD). The special features of the book are the variety of insights into the GPD process, and the host of methods and tools at the cutting edge of all major areas of design research for its support. The main benefit of this book for researchers in engineering design and GPD are access to the latest quality research in this area; for practitioners and educators, it is exposure to an empirically validated suite of methods and tools that can be taught and practiced.

THE SCIENCE OF SCIENCE

Cambridge University Press This is the first comprehensive overview of the exciting field of the 'science of science'. With anecdotes and detailed, easy-to-follow explanations of the research, this book is accessible to all scientists, policy makers, and administrators with an interest in the wider scientific enterprise.

EMBEDDINGS IN NATURAL LANGUAGE PROCESSING

THEORY AND ADVANCES IN VECTOR REPRESENTATIONS OF MEANING

Morgan & Claypool Publishers Embeddings have undoubtedly been one of the most influential research areas in Natural Language Processing (NLP). Encoding information into a low-dimensional vector representation, which is easily integrable in modern machine learning models, has played a central role in the development of NLP. Embedding techniques initially focused on words, but the attention soon started to shift to other forms: from graph structures, such as knowledge bases, to other types of textual content, such as sentences and documents. This book provides a high-level synthesis of the main embedding techniques in NLP, in the broad sense. The book starts by explaining conventional word vector space models and word embeddings (e.g., Word2Vec and GloVe) and then moves to other types of embeddings, such as word sense, sentence and document, and graph embeddings. The book also provides an overview of recent developments in contextualized representations (e.g., ELMo and BERT) and explains their potential in NLP. Throughout the book, the reader can find both essential information for understanding a certain topic from scratch and a broad overview of the most successful techniques developed in the literature.

ELEMENTARY FUZZY MATRIX THEORY AND FUZZY MODELS FOR SOCIAL SCIENTISTS

Infinite Study

EMERGING TRENDS IN MECHATRONICS

BoD – Books on Demand Mechatronics is a multidisciplinary branch of engineering combining mechanical, electrical and electronics, control and automation, and computer engineering fields. The main research task of mechatronics is design, control, and optimization of advanced devices, products, and hybrid systems utilizing the concepts found in all these fields. The purpose of this special issue is to help better understand how mechatronics will impact on the practice and research of developing advanced techniques to model, control, and optimize complex systems. The special issue presents recent advances in mechatronics and related technologies. The selected topics give an overview of the state of the art and present new research results and prospects for the future development of the interdisciplinary field of mechatronic systems.

GROUND ANCHORS AND ANCHORED SYSTEMS

This book presents state-of-the-practice information on the design and installation of cement-grouted ground anchors and anchored systems for highway applications. The anchored systems discussed include flexible anchored walls, slopes supported using ground anchors, landslide stabilization systems, and structures that incorporate tiedown anchors. This book draws extensively in describing issues such as subsurface investigation and laboratory testing, basic anchoring principles, ground anchor load testing, and inspection of construction materials and methods used for anchored systems. This book provides detailed information on design analyses for ground anchored systems. Topics discussed include selection of design earth pressures, ground anchor design, design of corrosion protection system for ground anchors, design of wall components to resist lateral and vertical loads, evaluation of overall anchored system stability, and seismic design of anchored systems. Also included in this book are two detailed design examples and technical specifications for ground anchors and for anchored walls.

BASIC SHIP PROPULSION

Allied Publishers

MODERN POWER SYSTEMS ANALYSIS

Springer Science & Business Media The capability of effectively analyzing complex systems is fundamental to the operation, management and planning of power systems. This book offers broad coverage of essential power system concepts and features a complete and in-depth account of all the latest developments, including Power Flow Analysis in Market Environment; Power Flow Calculation of AC/DC Interconnected Systems and Power Flow Control and Calculation for Systems Having FACTS Devices and recent results in system stability.

PROCEEDINGS OF THE SYMPOSIUM ON POWER PLANT DYNAMICS AND CONTROL, BHABHA ATOMIC RESEARCH CENTRE, FEBRUARY 23-24, 1976

THE MUSHROOM AT THE END OF THE WORLD

ON THE POSSIBILITY OF LIFE IN CAPITALIST RUINS

Princeton University Press Matsutake is the most valuable mushroom in the world—and a weed that grows in human-disturbed forests across the northern hemisphere. Through its ability to nurture trees, matsutake helps forests to grow in daunting places. It is also an edible delicacy in Japan, where it sometimes commands astronomical prices. In all its contradictions, matsutake offers insights into areas far beyond just mushrooms and addresses a crucial question: what manages to live in the ruins we have made? A tale of diversity within our damaged landscapes, The Mushroom at the End of the World follows one of the strangest commodity chains of our times to explore the unexpected corners of capitalism. Here, we witness the varied and peculiar worlds of matsutake commerce: the worlds of Japanese gourmets, capitalist traders, Hmong jungle fighters, industrial forests, Yi Chinese goat herders, Finnish nature guides, and more. These companions also lead us into fungal ecologies and forest histories to better understand the promise of cohabitation in a time of massive human destruction. By investigating one of the world's most sought-after fungi, The Mushroom at the End of the World presents an original examination into the relation between capitalist destruction and collaborative survival within multispecies landscapes, the prerequisite for continuing life on earth.

PRINCIPLES OF POWER SYSTEM

INCLUDING GENERATION, TRANSMISSION, DISTRIBUTION, SWITCHGEAR AND PROTECTION : FOR B.E/B.TECH., AMIE AND OTHER ENGINEERING EXAMINATIONS

S. Chand Publishing 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.

OPTIMIZATION FOR MACHINE LEARNING

MIT Press An up-to-date account of the interplay between optimization and machine learning, accessible to students and researchers in both communities. The interplay between optimization and machine learning is one of the most important developments in modern computational science. Optimization formulations and methods are proving to be vital in designing algorithms to extract essential knowledge from huge volumes of data. Machine learning, however, is not simply a consumer of optimization technology but a rapidly evolving field that is itself generating new optimization ideas. This book captures the state of the art of the interaction between optimization and machine learning in a way that is accessible to researchers in both fields. Optimization approaches have enjoyed prominence in machine learning because of their wide applicability and attractive theoretical properties. The increasing complexity, size, and variety of today's machine learning models call for the reassessment of existing assumptions. This book starts the process of reassessment. It describes the resurgence in novel contexts of established frameworks such as first-order methods, stochastic approximations, convex relaxations, interior-point methods, and proximal methods. It also devotes attention to newer themes such as regularized optimization, robust optimization, gradient and subgradient methods, splitting techniques, and second-order methods. Many of these techniques draw inspiration from other fields, including operations research, theoretical computer science, and subfields of optimization. The book will enrich the ongoing cross-fertilization between the machine learning community and these other fields, and within the broader optimization community.

ELECTRICAL POWER SYSTEMS TECHNOLOGY, THIRD EDITION

CRC Press Covering the gamut of technologies and systems used in the generation of electrical power, this reference provides an easy-to understand overview of the production, distribution, control, conversion, and measurement of electrical power. The content is presented in an easy to understand style, so that readers can develop a basic comprehensive understanding of the many parts of complex electrical power systems. The authors describe a broad array of essential characteristics of electrical power systems from power production to its conversion to another form of energy. Each system is broken down into sub systems and equipment that are further explored in the chapters of each unit. Simple mathematical presentations are used with practical applications to provide an easier understanding of basic power system operation. Many illustrations are included to facilitate understanding. This new third edition has been edited throughout to assure its content and illustration clarity, and a new chapter covering control devises for power control has been added.