Symmetrical Fault Current Calculations Unlv

These are the proceedings of an Advanced Research Workshop (ARW), sponsored by the NATO Science Panel, entitled "Pest Control: Operations and Systems Analysis in Fruit Fly Management". The ARW was held in Bad Windsheim, Germany during the week of 5 August 1985. The purpose of the ARW was to bring together scientists who are interested in fruit fly problems, but who usually do not have an opportunity to speak with each other, for an intense week of interdisciplinary collaboration. In particular, the group present at the ARW contained a mix of biologists, field ecologists, mathematical modellers, operational program managers, economists and social scientists. Each group has its own professional meetings at which fruit fly problems are discussed, but the point of the ARW was to learn about the problem from the perspective of other fields, which are equally important for the ultimate management of the fruit fly problems. (A list of attendees follows this preface.) It appears that the ARW successfully met its objective of bringing together a group for interdisciplinary considerations of the problems; I hope that the proceedings do as well. The ARW was structured with formal lectures in the mornings and workshops in the afternoons. For the morning lectures, four different topics were chosen: 1) basic biology and ecology, 2) trapping and detection, 3) control and eradication, and 4) policy issues. Each morning, one lecture from each area was presented.

This invaluable book provides a balanced and integrated introduction to the quantum world of atoms and molecules. The underlying basis of quantum mechanics is carefully developed, with respect for the historical tradition and from a molecular angle. The fundamental concepts in the theory of atomic and molecular structure are thoroughly discussed, as are the central techniques needed in quantum-chemical applications. Special attention is paid to exposing and clarifying the common ground of Hartree-Fock theory and density-functional theory. Throughout the text, the discussion is pedagogically obliging and aims at simplicity and mathematical clarity, while avoiding the use of advanced mathematics. End-of-chapter problems supplement the main text.

Electric Machinery and Power System Fundamentals

The Female Body and the Law provides an original and incisive reexamination of the dynamics of sexual equality. Eisenstein contends that sexual inequality is fostered both by the law and by the insistence that men and women are biologically different. Through a fascinating discussion of a series of issues including affirmative action, AIDS, Baby M, pornography, and abortion, Eisenstein shows how the law operates as a political language that establishes and curtails choices and actions. This title is part of UC Press's Voices Revived program, which commemorates University of California Press’s mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1990.

Neural Information Processing and VLSI provides a unified treatment of this important subject for use in classrooms, industry, and research laboratories, in order to develop advanced artificial and biologically-inspired neural networks using compact analog and digital VLSI parallel processing techniques. Neural Information Processing and VLSI systematically presents various neural network paradigms, computing architectures, and the associated electronic/optical implementations using efficient VLSI design methodologies. Conventional digital machines cannot perform computationally-intensive tasks with satisfactory performance in such areas as intelligent perception, including visual and auditory signal processing, recognition, understanding, and logical reasoning (where the human being and even a small living animal can do a superb job). Recent research advances in artificial and biological neural networks have established an important foundation for high-performance information processing with more efficient use of computing resources. The secret lies in the design optimization at various levels of computing and communication of intelligent machines. Each neural network system consists of massively paralleled and distributed signal processors with every processor performing very simple operations, thus consuming little power. Large computational capabilities of these systems in the range of some hundred giga to several tera operations per second are derived from collectively parallel processing and efficient data routing, through well-structured interconnection networks. Deep-submicron very large-scale integration (VLSI) technologies can integrate tens of millions of transistors in a single silicon chip for complex signal processing and information manipulation. The book is suitable for those interested in efficient neurocomputing as well as those curious about neural network system applications. It has been especially prepared for use as a text for advanced undergraduate and first year graduate students, and is an excellent reference book for researchers and scientists working in the fields covered.

This textbook explores reactive power control and voltage stability and explains how they relate to different forms of power generation and transmission. Bringing together international experts in this field, it includes chapters on electric power analysis, design and operational strategies. The book explains fundamental concepts before moving on to report on the latest theoretical findings in reactive power control, including case studies and advice on practical implementation students can use to design their own research projects. Featuring numerous worked-out examples, problems and solutions, as well as over 400 illustrations, Reactive Power Control in AC Power Systems offers an essential textbook for postgraduate students in electrical power engineering. It offers practical advice on implementing the methods discussed in the book using MATLAB and DIgSILENT, and the relevant program files are available at extras.springer.com.

Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well

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Languages, in all their forms, are the more efficient and natural means for people to communicate. Enormous quantities of information are produced, distributed and consumed using languages. Human language technology's main purpose is to allow the use of automatic systems and tools to assist humans in producing and accessing information, to improve communication between humans, and to assist humans in communicating with machines. This book, sponsored by the Directorate General XIII of the European Union and the Information Science and Engineering Directorate of the National Science Foundation, USA, offers the first comprehensive overview of the human language technology field.

This book is intended for a course that combines machinery and power systems into one semester. It is designed to be flexible and to allow instructors to choose chapters a la carte, so the instructor controls the emphasis. The text gives students the information they need to become real-world engineers, focusing on principles and teaching how to use information as opposed to doing a lot of calculations that would rarely be done by a practising engineer. The author compresses the material by focusing on its essence, underlying principles. MATLAB is used throughout the book in examples and problems.

This book presents high-quality papers from the Fourth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2019). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development.

"AC Machine Systems" stresses both analysis methods and operating performances of AC machine systems, including variable speed drive system of AC machines with power electronics and control devices, power energy system composed of AC machines and power lines, special machine system with special machines and special loads, electric machine system consisting of AC machines and excitation devices. Based on a single coil, the Multi-Loop Theory is thoroughly described, and examples of how to use the new approach are presented. This book provides a new way for analyzing the AC machine systems. This book is designed for the researchers and postgraduates in the field of electric machines and control. It's also a reference book for related technicians. This book is written in memory of Professor Jingde Gao, past-president of Tsinghua University, Member of Chinese Academy of Sciences. Another two authors, Linzheng Zhang and Xiangheng Wang both are Professors in Electrical Engineering Dept. of Tsinghua University.

Computational resources have developed to the level that, for the first time, it is becoming possible to apply large-eddy simulation (LES) to turbulent flow problems of realistic complexity. Many examples can be found in technology and in a variety of natural flows. This puts issues related to assessing, assuring, and predicting the quality of LES into the spotlight. Several LES studies have been published in the past, demonstrating a high level of accuracy with which turbulent flow predictions can be attained, without having to resort to the excessive requirements on computational resources imposed by direct numerical simulations. However, the setup and use of turbulent flow simulations requires a profound knowledge of fluid mechanics, numerical techniques, and the application under consideration. The susceptibility of large-eddy simulations to errors in modelling, in numerics, and in the treatment of boundary conditions, can be quite large due to nonlinear accumulation of different contributions over time, leading to an intricate and unpredictable situation. A full understanding of the interacting error dynamics in large-eddy simulations is still lacking. To ensure the reliability of large-eddy simulations for a wide range of industrial users, the development of clear standards for the evaluation, prediction, and control of simulation errors in LES is summoned. The workshop on Quality and Reliability of Large-Eddy Simulations, held October 22-24, 2007 in Leuven, Belgium (QLES2007), provided one of the first platforms specifically addressing these aspects of LES.

This book includes representative research from the state?of?the?art in the emerging field of soft robotics, with a special focus on bioinspired soft robotics for underwater applications. Topics include novel materials, sensors, actuators, and system design for distributed estimation and control of soft robotic appendages inspired by the octopus and seastar. It summarizes the latest findings in an emerging field of bioinspired soft robotics for the underwater domain, primarily drawing from (but not limited to) an ongoing research program in bioinspired autonomous systems sponsored by the Office of Naval Research. The program has stimulated cross?disciplinary research in biology, material science, computational mechanics, and systems and control for the purpose of creating novel robotic appendages for maritime applications. The book collects recent results in this area.

A cumulative list of works represented by Library of Congress printed cards.

Management accountancy has a dynamic role to play in the competitive strategy of modern global businesses. This book sets out key strategic principles and then assesses how management accountancy can affect and direct these strategies. Engaging case studies reveal how theories and concepts translate into real business practice. Throughout, the book emphasizes: - how accounting initiatives can trigger assessment and improvement of performance management - the importance of managerial decision making to good business practice - how today's management accountancy measures against current research Written for advanced undergraduate, postgraduate and MBA students taking courses on management accounting and performance measurement and management, the book will be also of interest to management and business consultants, professional accountants and accounting academics.

Good,No Highlights,No Markup,all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Written by experts in the field, this volume presents a comprehensive investigation into the relationship between argumentation theory and the philosophy of mathematical practice. Argumentation theory studies reasoning and argument, and especially those aspects not addressed, or not addressed well, by formal deduction. The philosophy of mathematical practice diverges from mainstream philosophy of mathematics in the emphasis it places on what the majority of working mathematicians actually do, rather than on mathematical foundations. The book begins by first challenging the assumption that there is no role for informal logic in mathematics. Next, it details the usefulness of argumentation theory in the understanding of mathematical practice, offering an impressively diverse set of examples, covering the history of

mathematics, mathematics education and, perhaps surprisingly, formal proof verification. From there, the book demonstrates that mathematics also offers a valuable testbed for argumentation theory. Coverage concludes by defending attention to mathematical argumentation as the basis for new perspectives on the philosophy of mathematics. ?

Learn Intel 64 assembly language and architecture, become proficient in C, and understand how the programs are compiled and executed down to machine instructions, enabling you to write robust, high-performance code. Low-Level Programming explains Intel 64 architecture as the result of von Neumann architecture evolution. The book teaches the latest version of the C language (C11) and assembly language from scratch. It covers the entire path from source code to program execution, including generation of ELF object files, and static and dynamic linking. Code examples and exercises are included along with the best code practices. Optimization capabilities and limits of modern compilers are examined, enabling you to balance between program readability and performance. The use of various performance-gain techniques is demonstrated, such as SSE instructions and pre-fetching. Relevant Computer Science topics such as models of computation and formal grammars are addressed, and their practical value explained. What You'll Learn Low-Level Programming teaches programmers to: Freely write in assembly language Understand the programming model of Intel 64 Write maintainable and robust code in C11 Follow the compilation process and decipher assembly listings Debug errors in compiled assembly code Use appropriate models of computation to greatly reduce program complexity Write performance-critical code Comprehend the impact of a weak memory model in multi-threaded applications Who This Book Is For Intermediate to advanced programmers and programming students

When Dave Hickey was twelve, he rode the surfer’s dream: the perfect wave. And, like so many things in life we long for, it didn’t quite turn out----he shot the pier and dashed himself against the rocks of Sunset Cliffs in Ocean Beach, which just about killed him. Fortunately, for Hickey and for us, he survived, and continues to battle, decades into a career as one of America’s foremost critical iconoclasts, a trusted, even cherished no-nonsense voice commenting on the all-too-often nonsensical worlds of art and culture. Perfect Wave brings together essays on a wide range of subjects from throughout Hickey’s career, displaying his usual breadth of interest and powerful insight into what makes art work, or not, and why we care. With Hickey as our guide, we travel to Disneyland and Vegas, London and Venice. We discover the genius of Karen Carpenter and Waylon Jennings, learn why Robert Mitchum matters more than Jimmy Stewart, and see how the stillness of Antonioni speaks to us today. Never slow to judge—or to surprise us in doing so—Hickey powerfully relates his wincing disappointment in the later career of his early hero Susan Sontag, and shows us the appeal to our commonality that we’ve been missing in Norman Rockwell. With each essay, the doing is as important as what’s done; the pleasure of reading Dave Hickey lies nearly as much in spending time in his company as in being surprised to find yourself agreeing with his conclusions. Bookended by previously unpublished personal essays that offer a new glimpse into Hickey’s own life—including the aforementioned slam-bang conclusion to his youthful surfing career—Perfect Wave is not a perfect book. But it’s a damn good one, and a welcome addition to the Hickey canon.

Recently, there has been an increased interest in the research and development of techniques for components of complete document analysis systems. In recognition of this trend, a series of workshops on Document Analysis Systems commenced in 1994, under the leadership of Henry Baird. The first workshop, held in Kaiserslautern, Germany, in October, 1994, was chaired by Andreas Dengel and Larry Spitz. The second workshop on Document Analysis Systems was held in Malvern, PA, USA, in October, 1996, chaired by Jonathan J. Hull and Suzanne Liebowitz Taylor. The DAS workshop has been one of the most prestigious technical meetings, bringing together a large number of scientists and engineers from all over the world to express their innovative ideas and report on their latest achievements in the area of document analysis systems. The papers in this special book edition were rigorously selected from the Third IAPR Workshop on Document Analysis Systems (DAS’98), held in Nagano, Japan, on 4 - 6 November 1998. It is worth mentioning that the papers were chosen for their original and substantial contributions to the workshop theme and this special book edition. From among the 53 papers that were presented by authors from 11 countries at the DAS’98 after critical reviews by at least three experts, we carefully selected 29 papers for this special book edition. Most of the contributions in this edition have been expanded or extensively revised to include helpful discussions, suggestions, or comments made during the workshop.

This book features the latest research in the area of immersive technologies, presented at the 5th International Augmented and Virtual Reality Conference, held in Munich, Germany in 2019. Bridging the gap between academia and industry, it presents the state of the art in augmented reality (AR) and virtual reality (VR) technologies and their applications in various industries such as marketing, education, healthcare, tourism, events, fashion, entertainment, retail and the gaming industry. The volume is a collection of research papers by prominent AR and VR scholars from around the globe. Covering the most significant topics in the field of augmented and virtual reality and providing the latest findings, it is of interest to academics and practitioners alike.

This textbook is the new edition of Purnell's famous Transcultural Health Care, based on the Purnell twelve-step model and theory of cultural competence. This textbook, an extended version of the recently published Handbook, focuses on specific populations and provides the most recent research and evidence in the field. This new updated edition discusses individual competences and evidence-based practices as well as international standards, organizational cultural competence, and perspectives on health care in a global context. The individual chapters present selected populations, offering a balance of collectivistic and individualistic cultures. Featuring a uniquely comprehensive assessment guide, it is the only book that provides a complete profile of a population group across clinical practice settings. Further, it includes a personal understanding of the traditions and customs of society, offering all health professionals a unique perspective on the implications for patient care.

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor angle stability and voltage stability as well as control mechanism of the frequency and voltage are described. Illustrative examples and graphical representations help readers across many disciplines acquire ample knowledge on the respective subjects.

This classic text offers you the key to understanding short circuits, open conductors and other problems relating to electric power systems that are subject to unbalanced conditions. Using the method of symmetrical components, acknowledged expert Paul M. Anderson provides comprehensive guidance for both finding solutions for faulted power systems and maintaining protective system applications. You'll learn to solve advanced problems, while gaining a thorough background in elementary configurations. Features you'll put to immediate use: Numerous examples and problems Clear, concise notation Analytical simplifications Matrix methods applicable to digital computer technology Extensive appendices Diskette files can now be found by entering in ISBN 978-0780311459 on booksupport.wiley.com.

This book is a social—ecological system description and feedback analysis of the Lake Tana Basin, the headwater catchment of the Upper Blue Nile River. This basin is an important local, national, and international resource, and concern about its sustainable development is growing at many levels. Lake Tana Basin outflows of water, sediments, nutrients, and contaminants affect water that flows downstream in the Blue Nile across international boundaries into the Nile River; the lake and surrounding land have recently been proposed as a UNESCO Biosphere Reserve; the basin has been designated as a key national economic growth

corridor in the Ethiopian Growth and Transformation Plan. In spite of the Lake Tana Basin’s importance, there is no comprehensive, integrated, system-wide description of its characteristics and dynamics that can serve as a basis for its sustainable development. This book presents both the social and ecological characteristics of the region and an integrated, system-wide perspective of the feedback links that shape social and ecological change in the basin. Finally, it summarizes key research needs for sustainable development.

This instructive, engaging, highly readable manual is intended for the laboratory portion of an undergraduate course in structural geology. Guided by students' and instructors' suggestions, Dr Stephen Rowland and his new co-author, Dr Ernest Duebendorfer, have refined various exercises for the second edition, and have added discussions of numerous topics, including axial planar foliations and the dip isogon methods of fold classification. There are also three new chapters on: balanced cross sections; deformation mechanisms, fault kinematics and microstructures; and plate tectonics.

The sports gambling book you can bet on Sports betting combines America's national pastime (sports) with its national passion (gambling). In the U.S., more than a third of the population bets on at least one sporting event every year. With the recent lifting of the federal ban on sports gambling, states are pushing legislation to take advantage of the new potential source of revenue. The best sports betting books are data driven, statistically honest, and offer ways to take action. Sports Betting For Dummies will cover the basics, as well as delving into more nuanced topics. You’ll find all the need-to-know information on types of bets, statistics, handicapping fundamentals, and more. Betting on football, basketball, baseball, and other sports Betting on special events, such as the Superbowl or the Olympics Money management Betting on the internet With handy tips, tricks, and tools, Sports Betting For Dummies shows you how to place the right bet at the right time—to get the right payoff.

Since it was first published more than twenty-five years ago, Asking Questions has become a classic guide for designing questionnaires¾the most widely used method for collecting information about people?s attitudes and behavior. An essential tool for market researchers advertisers, pollsters, and social scientists, this thoroughly updated and definitive work combines time-proven techniques with the most current research, findings, and methods. The book presents a cognitive approach to questionnaire design and includes timely information on the Internet and electronic resources. Comprehensive and concise, Asking Questions can be used to design questionnaires for any subject area, whether administered by telephone, online, mail, in groups, or face-to-face. The book describes the design process from start to finish and is filled with illustrative examples from actual surveys.

We consider first the folded normal probability density function, especially as it relates to the original normal population from which it came. We present some maximum likelihood estimates, followed by other estimating procedures which are simpler to handle...Finally, an example of real camber data is presented with the appropriate estimation of the theoretical distributions. Some remarks of the folded normal and other work being done on this conclude the paper.

Microgrids are the most innovative area in the electric power industry today. Future microgrids could exist as energy-balanced cells within existing power distribution grids or stand-alone power networks within small communities. A definitive presentation on all aspects of microgrids, this text examines the operation of microgrids – their control concepts and advanced architectures including multi-microgrids. It takes a logical approach to overview the purpose and the technical aspects of microgrids, discussing the social, economic and environmental benefits to power system operation. The book also presents microgrid design and control issues, including protection and explaining how to implement centralized and decentralized control strategies. Key features: original, state-of-the-art research material written by internationally respected contributors unique case studies demonstrating success stories from real-world pilot sites from Europe, the Americas, Japan and China examines market and regulatory settings for microgrids, and provides evaluation results under standard test conditions a look to the future – technical solutions to maximize the value of distributed energy along with the principles and criteria for developing commercial and regulatory frameworks for microgrids Offering broad yet balanced coverage, this volume is an entry point to this very topical area of power delivery for electric power engineers familiar with medium and low voltage distribution systems, utility operators in microgrids, power systems researchers and academics. It is also a useful reference for system planners and operators, manufacturers and network operators, government regulators, and postgraduate power systems students. CONTRIBUTORS Thomas Degner Aris Dimeas Alfred Engler Nuno Gil Asier Gil de Muro Guillermo Jiménez-Estévez George Kariniotakis George Korres André Madureira Meiqin Mao Chris Marnay Jose Miguel Yarza Satoshi Morozumi Alexander Oudalov Frank van Overbeeke Rodrigo Palma Behnke Joao Abel Pecas Lopes Fernanda Resende John Romankiewicz Christine Schwaegerl Nikos Soultanis Liang Tao Antonis Tsikalakis

In this now established text the author presents her analysis of the power of law and argues for a feminist post-structuralist approach. She comments on pornography, as well as discussing recent research on rape trials and abortion legislation.

PSYCHOLOGY: THEMES AND VARIATIONS, 10th Edition, helps you experience the excitement of this fascinating field, while helping you study and retain what you learn. Filled with practical ways that you can apply psychology to your everyday life, this best-selling textbook is an experience in learning that you'll remember long after you complete your introductory psychology course. Critical Thinking Applications in every chapter give you specific critical thinking strategies you can apply in all of your courses and in your personal life. Reality Checks, many of which may surprise you, address common misconceptions about psychology. Every chapter of this book offers tools -- such as Concept Charts that provide colorful visual snapshots of key points -- to help you focus on what's important, showing you how to study in ways that help you retain information and do your best on exams.

Every day, corporations are connecting the dots about our personal behavior—silently scrutinizing clues left behind by our work habits and Internet use. But who connects the dots about what firms are doing with all this information? Frank Pasquale exposes how powerful interests abuse secrecy for profit and explains ways to rein them in.

Includes entries for maps and atlases.