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this book covers the topic from introductory to advanced levels for undergraduate students of electrical power and related fields and for professionals who need a fundamental grasp of power systems engineering the book also analyses and simulates selected power circuits using appropriate software and includes a wealth of worked out examples and practice problems to enrich readers learning experience in addition the exercise problems provided can be used in teaching courses

this book contains the research contributions presented at the 14th international conference on computing and information technology ic2it 2018 organised by king mongkut s

university of technology north bangkok and its partners and held in the northern thai city of Chiang Mai in July 2018. Traditionally IC2IT 2018 provides a forum for exchange on the state of the art and on expected future developments in its field. Correspondingly, this book contains chapters on topics in data mining, machine learning, natural language processing, image processing, networks, and security software engineering and information technology. With them, the editors want to foster inspiring discussions among colleagues not only during the conference; it is also intended to contribute to a deeper understanding of the underlying problems as needed to solve them in complex environments and beneficial for this purpose to encourage interdisciplinary cooperation.

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.

A practical step-by-step guide to designing world-class high availability systems using both classical and DFSS reliability techniques. Whether designing telecom, aerospace, automotive, medical, financial, or public safety systems, every engineer aims for the utmost reliability and availability in the systems he or she designs. But between the dream of world-class performance and reality falls the shadow of complexities that can bedevil even the most rigorous design process. While there are an array of robust predictive engineering tools, there has been no single source guide to understanding and using them until now. Offering a case-based approach to designing, predicting, and deploying world-class high availability systems from the ground up, this book brings together the best classical and DFSS reliability techniques. Although it focuses on technical aspects, this guide considers the business and market constraints that require that systems be designed right the first time. Written in plain English and following a step-by-step cookbook format, *Designing High Availability Systems* shows how to integrate an array of design analysis tools, including Six Sigma, Failure Analysis, and Reliability Analysis. Features many real-life examples and case studies describing predictive design methods, tradeoffs, risk priorities, what-if scenarios, and more. Delivers numerous high-impact takeaways that you can apply to your current projects immediately. Provides access to MATLAB programs for simulating problem sets presented along with PowerPoint slides to assist in outlining the problem-solving process. *Designing High Availability Systems* is an indispensable working resource for system engineers, software/hardware architects, and project teams working in all industries.

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product fully revised to include calculations needed for the latest technologies this essential tool for electrical engineers and technicians provides the step by step procedures required to solve a wide array of electric power problems the new edition of the handbook of electric power calculations is updated to address significant new calculation problems and the technological developments that have occurred since publication of the third edition of the book in 2000 this fully revised resource provides electric power engineers and technicians with a complete problem solving package that makes it easy to find and use the right calculation the book covers the entire spectrum of electrical engineering including batteries cogeneration electric energy economics generation instrumentation lighting design motors and generators networks transmission each section contains a clear statement of the problem the step by step calculation procedure graphs and illustrations to clarify the problem and si and uscs equivalents brand new chapter on three phase reactive power in alternating current ac transmission systems new now includes relevant industry standards nema ieee etc listed at the end of each section provides practical ready to use calculations with a minimum of emphasis on theory

the goal of this text is to introduce a general problem solving approach for the beginning engineering student thus introduction to analysis focuses on how to solve any kind of engineering analytical problem in a logical and systematic way the book helps to prepare the students for such analytically oriented courses as statics strength of materials electrical circuits fluid mechanics thermodynamics etc

about the book assisting clinicians in the differential diagnosis of the wide range of disorders responsible for fever of unknown origin fuo this source stands as the only recent and comprehensive differential diagnosis of these conditions this guide providing a clear overview of diagnostic approaches and offers expert recommendations t

covers all aspects historical epidemiological diagnostic clinical preventative public health and medico legal of stis in complete detail with a special emphasis on stis in special groups migrants homosexuals and sexually abused covers basic and laboratory sciences extensively to blend with the basics required by the clinician for proper understanding of the disease process clinical photographs illustrations photographs of specimens and cultures histopathology flow charts and line diagrams are given extensively throughout the text to make relevant clinical situation self explanatory has very useful and practical information for even the clinician in the periphery where the investigative component is either non existent or very basic and many new drugs are not available or unaffordable management of hiv in adults and children in resource poor countries has been covered extensively along with syndromic management of stis this enables a physician to choose from approaches in a particular situation depending upon the available means laboratory or therapeutic covers sexual dysfunction in both men and women and the basics of human sexual behavior and sexual health section editors and contributors from all continents of the world have made this a truly global reference book it is a useful reference text for epidemiologists public health experts clinicians microbiologists health workers social organizations and counselors working in the field of stis sexual health and hiv

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