

Power System Analysis By Ashfaq Hussain

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Power System Analysis - William Stevenson, Jr. 1994-01-01
Based on William Stevenson's classic, Elements of Power System Analysis, this new senior/graduate text offers a completely modern update of this popular textbook. Covering such topics as power flow, power-system stability and transmission lines, the book teaches the fundamental topics of power system analysis accompanied by logical discussions and numerous examples.
Electrical Power Systems, 5e (PB) - Ashfaq Husain 2009-02-01

Transformers and Generators - Uday A. Bakshi 2020-11-01
The importance of transformers and generators is well known in the various engineering fields. The book provides comprehensive coverage of the various types of transformers, d.c. generators and synchronous generators (alternators). The book starts with the brief review of single phase transformer. It continues to discuss no load and on load performance of transformers, phasor diagrams, equivalent circuit, voltage regulation and all day efficiency of transformer. The detailed discussion of open and short circuit tests and predetermination of regulation and

efficiency is also included in the book. The chapter on three phase transformer provides the detailed discussion of construction, three phase transformer connections and phasor groups. The book also explains parallel operation of transformers, tap changing transformer, autotransformers, cooling of transformers and three winding transformer. The various testing methods of transformers are also incorporated in the book. The book covers all the details of d.c. generators including construction, armature reaction, commutation, characteristics and applications. The chapters on synchronous generators start with the explanation of basics of synchronous generators including construction, winding details, e.m.f. equation and effect of harmonics on induced e.m.f. The book then explains the concept of armature reaction, phasor diagrams, regulation and various methods of finding the regulation of alternator. Stepwise explanation and simple techniques used to elaborate these methods is the feature of this book. The book further explains the concept of synchronization of alternators, two reaction theory and parallel operation of alternators. The book uses plain, lucid language to

explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self explanatory diagrams and variety of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Blender 3D By Example - Romain Caudron 2015-09-25

Design a complete workflow with Blender to create stunning 3D scenes and films step-by-step! About This Book Give life to a character within a full animated short film by learning the rigging and animation process Make use of the powerful tools available in Blender to produce professional-quality 3D characters and environments Discover advanced techniques by adding fur to a character, creating a grass field, and fine-tuning a shot with post-processing effects to enhance your creations Who This Book Is For This book will give any beginner the necessary skills and knowledge to create own 3D projects with Blender. You don't need to have any previous experience in 3D modeling, but if you do, then this book is a great way get you started with Blender. This book is for anyone who wants to learn Blender by creating concrete projects. What You Will Learn Understand the basics of 3D and how to navigate your way around the Blender interface Create a 3D robot toy model from start to finish using the basic modeling tools of Blender Make a full alien character using the skin mesh modifier and the sculpting tools with an artistic approach Use re-topology techniques to create a clean 3D version of the previously sculpted alien Model a full haunted house and its environment using more advanced modeling tools and techniques such as the Array Modifier, Instance duplication, or Curves Discover the power of the texture paint tool in order to add color to the haunted house Get to know the Cycles render engine by creating different materials for the house and the environment In Detail Blender is a powerful tool, stable, with an

integral workflow that will allow you to understand your learning of 3D creation with serenity. Today, it is considered to be one of the most complete 3D packages on the market and it is free and open source! It is very efficient for many types of productions, such as 3D animated or live action films, architecture, research, or even game creation with its integrated game engine and its use of the Python language. Moreover, Blender has an active community that contributes to expanding its functionalities. Today, it is used in many professional products and by many companies. Through this book, you will create many types of concert projects using a step-by-step approach. You will start by getting to know the modeling tools available in Blender as you create a 3D robot toy. Then, you will discover more advanced techniques such as sculpting and re-topology by creating a funny alien character. After that, you will create a full haunted house scene. For the last project, you will create a short film featuring a rat cowboy shooting cheese in a rat trap! This will be a more complex project in which you learn how to rig, animate, compose advanced material, composite, and edit a full sequence. Each project in this book will give you more practice and increase your knowledge of the Blender tools. By the end of this book, you will master a workflow that you will be able to apply to your own creations. Style and approach This is an easy-to-follow book that is based on four concrete projects, with increasing levels of difficulty. Each chapter will teach you how to create these projects step-by-step. New tools and techniques are introduced in a theoretical and practical way, so you can apply them in your own projects later.

Power System Analysis: Operation And Control - Abhijit Chakrabarti 2006-06

Electrical Power Systems - C. L. Wadhwa 2009

About the Book: Electrical power system together with Generation, Distribution and utilization of Electrical Energy by

the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

Indian National Bibliography - B. S. Kesavan 2004

PRODUCTION AND OPERATIONS MANAGEMENT - R. PANNEERSELVAM 2012-03-02

This widely adopted and well-established book, now in its Third Edition, provides the students of management and engineering with the latest techniques in production and operations management, considered so vital for maximizing productivity and profitability in business. What distinguishes the text is a comprehensive coverage of topics such as contract laws, capacity requirement planning, vendor evaluation including AHP method, quality function deployment, and enterprise resource planning. The new topics, which are of current interest, along with the characteristic features and easy-to-read style, would enhance the value of this text. The book is primarily intended as a text for postgraduate students of management, undergraduate students of mechanical engineering and undergraduate and postgraduate students of industrial, and production engineering courses. This profusely illustrated and well-organized text with its fine blend of theory and applications would also be useful for the practicing professionals. NEW TO THIS EDITION : Objective Type Questions at the end of each chapter Additional example problems in Chapters 5 and 17 XYZ, VED, FSN, and SDE analyses Process planning case study in Chapter 2 Case Study Questions in Chapters 2, 3, 4, 5, 6, 7, 9, 10, 11, 13, 14, and 15 Heuristic to minimise total tardiness in single machine scheduling KEY FEATURES : Focuses on productivity related concepts and techniques Provides solved examples at suitable places Includes sufficient tables and diagrams to illustrate the concepts Updates

the reader with many efficient and modern algorithms Contains Answers to selected questions and Objective type questions
Comprehensive Dictionary of Electrical Engineering - Phillip A. Laplante 1999-01-01

Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics.

Power Electronics: Circuits, Devices, and Application (for Anna University) - Muhammad H. Rashid 2011

A Textbook of Electrical Technology - Volume IV - BL Theraja 2006

A Textbook of Electrical Technology(Vol. IV) Multicolor pictures have been added to enhance the content value and give to the students an idea of what he will be dealing in reality and to bridge the gap between theory and practice. A notable feature is the inclusion of chapter on Flip-Flops and related Devices as per latest development in the subject. Latest tutorial problems and objective type questions specially for GATE have been included at relevant places.

Electrical Power System Essentials - Pieter Schavemaker 2017-05-08

The electrical power supply is about to change; future generation will increasingly take place in and near local neighborhoods with diminishing reliance on distant power plants. The existing grid is not adapted for this purpose as it is largely a remnant from the 20th century. Can the grid be transformed into an intelligent and flexible grid that is future proof? This revised edition of Electrical Power System Essentials contains not only an accessible, broad and up-to-date overview of alternating current (AC) power

systems, but also end-of-chapter exercises in every chapter, aiding readers in their understanding of the material introduced. With an original approach the book covers the generation of electric energy from thermal power plants as from renewable energy sources and treats the incorporation of power electronic devices and FACTS. Throughout there are examples and case studies that back up the theory or techniques presented. The authors set out information on mathematical modelling and equations in appendices rather than integrated in the main text. This unique approach distinguishes it from other text books on Electrical Power Systems and makes the resource highly accessible for undergraduate students and readers without a technical background directly related to power engineering. After laying out the basics for a steady-state analysis of the three-phase power system, the book examines: generation, transmission, distribution, and utilization of electric energy wind energy, solar energy and hydro power power system protection and circuit breakers power system control and operation the organization of electricity markets and the changes currently taking place system blackouts future developments in power systems, HVDC connections and smart grids The book is supplemented by a companion website from which teaching materials can be downloaded.

Electrical Power System - Ashfaq Husain 1982

Power System Analysis - Hadi Saadat 2009-04-01

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.

Principles Of Electrical Engineering And Electronics - V. K. Mehta 1998

Scientific and Technical Books and Serials in Print - 1989

MODERN CONTROL ENGINEERING - D. ROY CHOUDHURY
2005-01-01

This book represents an attempt to organize and unify the diverse methods of analysis of feedback control systems and presents the fundamentals explicitly and clearly. The scope of the text is such that it can be used for a two-semester course in control systems at the level of undergraduate students in any of the various branches of engineering (electrical, aeronautical, mechanical, and chemical). Emphasis is on the development of basic theory. The text is easy to follow and contains many examples to reinforce the understanding of the theory. Several software programs have been developed in MATLAB platform for better understanding of design of control systems. Many varied problems are included at the end of each chapter. The basic principles and fundamental concepts of feedback control systems, using the conventional frequency domain and time-domain approaches, are presented in a clearly accessible form in the first portion (chapters 1 through 10). The later portion (chapters 11 through 14) provides a thorough understanding of concepts such as state space, controllability, and observability. Students are also acquainted with the techniques available for analysing discrete-data and nonlinear systems. The hallmark feature of this text is that it helps the reader gain a sound understanding of both modern and classical topics in control engineering.

Automatic Control System - S. Hasan Saeed 2008

ELECTRICAL POWER SYSTEMS - P. VENKATESH 2012-04-03

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.

Principles of Electrical Machines - VK Mehta | Rohit Mehta 2008
For over 15 years "Principles of Electrical Machines" is an ideal text for students who look to gain a current and clear understanding of the subject as all theories and concepts are explained with lucidity and clarity. Succinctly divided in 14 chapters, the book delves into important concepts of the subject which include Armature Reaction and Commutation, Single-phase Motors, Three-phase Induction motors, Synchronous Motors, Transformers and Alternators with the help of numerous figures and supporting chapter-end questions for retention.

Building Construction Handbook - Roy Chudley 2016-04-14
Ideal for students on all construction courses Topics presented concisely in plain language and with clear drawings Updated to include revisions to Building and Construction regulations The

Building Construction Handbook is THE authoritative reference for all construction students and professionals. Its detailed drawings clearly illustrate the construction of building elements, and have been an invaluable guide for builders since 1988. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques, and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy to understand guide to building construction. This new edition has been updated to reflect recent changes to the building regulations, as well as new material on the latest technologies used in domestic construction. Building Construction Handbook is the essential, easy-to-use resource for undergraduate and vocational students on a wide range of courses including NVQ and BTEC National, through to Higher National Certificate and Diploma, to Foundation and three-year Degree level. It is also a useful practical reference for building designers, contractors and others engaged in the construction industry.

Bulletin of the Institution of Engineers (India). - Institution of Engineers (India) 1984

A Textbook of Electrical Technology - Volume II - BL Theraja 2005

A multicolor edition of Vol.II of A Textbook of Electrical Technology to keep pace with the ever-increasing scope of essential and modern technical information, the syllabi are frequently revised. This often results into compressing established facts to accommodate recent information in the syllabi. Fields of power-electronics and industrial power-conditioners have grown considerably resulting into changed priority of topics related to electrical machines. Switched reluctance-motors tend to threaten the most popular squirrel-cage induction motors due to their increased ruggedness, better performance including

controllability and equal ease with which they suit rotary as well as linear-motion-applications.

Uniform Trade List Annual - 1995

Networks and Systems - Ashfaq Husain 2015

This book is intended to serve as a textbook for BE., B. Tech, students of Electrical, Electronics, Computer, Instrumentation, Control and communication Engineering. It will also serve as a text reference for the students of diploma in Engineering. AMIE, GATE, UPSC Engineering services, IAS candidate would also find the book extremely useful. Subject matter in each chapter developed systematically from first principles. Written in a very simple language. Simple and clear explanation of concepts. Large number of carefully selected worked examples. Most simplified methods used. Step-by-step procedures given for solving problems. Ideally suited for self-study.

Principles of Power System - VK Mehta & Rohit Mehta 2005

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.

PPI FE Electrical and Computer Review Manual - Comprehensive FE Book for the FE Electrical and Computer Exam - Michael R. Lindeburg 2015-04-13

Michael R. Lindeburg PE's FE Electrical and Computer Review Manual offers complete coverage of the Electrical and Computer FE exam knowledge areas and the relevant elements—equations, figures, and tables—from the NCEES FE Reference Handbook. With 15 mini-exams to assess your grasp of the exam's knowledge areas, and concise explanations of thousands of equations and hundreds of figures and tables, the Review Manual contains everything you need to succeed on the Electrical and Computer FE exam. The Review Manual organizes the Handbook elements logically, grouping related concepts. All Handbook elements are

featured in blue boxes for easy identification, familiarizing you with the only reference you will have on exam day. Equations and their associated variations and values are clearly presented. Descriptions are succinct and supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. Thousands of terms are indexed to facilitate cross-referencing. Use the Review Manual in your FE Electrical and Computer exam preparation and get the power to pass the first time—guaranteed. Electrical and Computer Engineering Topics Covered Circuit Analysis and Linear Systems Communications and Signal Processing Computer Networks and Systems Control Systems Digital Systems Electromagnetics Electronics Engineering Economics Engineering Sciences Ethics and Professional Practice Mathematics Power Probability and Statistics Properties of Electrical Materials Software Development Key Features: Complete coverage of all exam knowledge areas. Equations, figures, and tables from the NCEES FE Reference Handbook to familiarize you with the reference you'll have on exam day. Concise explanations supported by exam-like example problems, with step-by-step solutions to reinforce the theory and application of fundamental concepts. A robust index with thousands of terms to facilitate referencing. Binding: Paperback About the Publisher: PPI, A Kaplan Company has been trusted by engineering exam candidates since 1975.

Recent Trends in Engineering and Technology (NCRTE-2017) - Bijoy Kumar Upadhyaya 2018-03-05

After successful organization of the "National Seminar on Energy Science and Engineering, 2013 (NSESE-2013)" during November, 2013, Tripura Institute of Technology, Narsingarh, Tripura (West) has organized the second "National Conference on Recent Trends in Engineering and Technology, 2017 (NCRTE-2017)" during March 17-18, 2017. The seminar aimed to provide an opportunity for academicians and researchers in India to discuss the

divergent issues related to recent trends in engineering and technology covering all aspects on one platform so as to critically examine the ongoing/current research and derive directions for future research strategies and policy implications. As a mark of remembrance, a souvenir was published on this occasion. The conference has received enormous response in the form of technical papers and research contributions from various authors across the country. In total, 55 numbers of technical papers related to different engineering domain were accepted for oral presentation. Four invited papers from renowned faculty members of our country were also presented on the occasion. We are also happy to keep our commitment of publishing a conference proceeding with ISBN through a prestigious publisher having all accepted full length papers.

A Text Book On Power System Engineering - A. Chakrabarti
2008-01-01

Basic Electrical Engineering - Mehta V.K. & Mehta Rohit 2008
For close to 30 years, □Basic Electrical Engineering□ has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

ELECTRICAL POWER SYSTEMS - SUBIR RAY 2014-04-04

This textbook, in its second edition aims to provide undergraduate students of Electrical Engineering with a unified treatment of all aspects of modern power systems, including generation, transmission and distribution of electric power, load flow studies, economic considerations, fault analysis and stability,

high voltage phenomena, system protection, power control, and so on. The text systematically deals with the fundamental techniques in power systems, coupled with adequate analytical techniques and reference to practices in the field. Special emphasis is placed on the latest developments in power system engineering. The book will be equally useful to the postgraduate students specialising in power systems and practising engineers as a reference. NEW TO THIS EDITION • Chapters on Elements of Electric Power Generation and Power System Economics are thoroughly updated. • A new Chapter on Control of Active and Reactive Power is added.

Irrigation Management in Pakistan -

Digital Signal Processing - Sanjit Kumar Mitra 2006-01

Digital Signal Processing: A Computer-Based Approach is intended for a two-semester course on digital signal processing for seniors or first-year graduate students. Based on user feedback, a number of new topics have been added to the third edition, while some excess topics from the second edition have been removed. The author has taken great care to organize the chapters more logically by reordering the sections within chapters. More worked-out examples have also been included. The book contains more than 500 problems and 150 MATLAB exercises. New topics in the third edition include: short-time characterization of discrete-time signals, expanded coverage of discrete-time Fourier transform and discrete Fourier transform, prime factor algorithm for DFT computation, sliding DFT, zoom FFT, chirp Fourier transform, expanded coverage of z-transform, group delay equalization of IIR digital filters, design of computationally efficient FIR digital filters, semi-symbolic analysis of digital filter structures, spline interpolation, spectral factorization, discrete wavelet transform.

Blender 3D Basics - Gordon Fisher 2012-06-22

The complete novice's guide to 3D modeling and animation.

Electrical Engineering Principles - Ashfaq Husain 1987

Power System Engineering - Dwarkadas Pralhaddas Kothari 2019

Basic Electrical Engineering - Dr. Ramana Pilla, Dr. M Surya Kalavathi & Dr. G T Chandra Sekhar

This book is designed based on revised syllabus of JNTU, Hyderabad (AICTE model curriculum) for under-graduate (B.Tech/BE) students of all branches, those who study Basic Electrical Engineering as one of the subject in their curriculum. The primary goal of this book is to establish a firm understanding of the basic laws of Electric Circuits, Network Theorems, Resonance, Three-phase circuits, Transformers, Electrical Machines and Electrical Installation.

Electrical Power Systems - Debapriya Das 2007-12

This book will give readers a thorough understanding of the fundamentals of power system analysis and their applications.

Both the basic and advanced topics have been thoroughly explained and supported through several solved examples. Important Features of the Book: Load Flow and Optimal System Operation have been discussed in detail. Automatic Generation Control (AGC) of Isolated and Interconnected Power Systems have been discussed and explained clearly. AGC in Restructured Environment of Power System has been Introduced. Sag and Tension Analysis have been discussed in detail. Contains over 150 illustrative examples, practice problems and objective-type questions, that will assist the reader. With all these features, this is an indispensable text for graduate and postgraduate electrical engineering students. GATE, AMIE and UPSC engineering services along with practicing engineers would also find this book extremely useful

Indian Books in Print - 2003

Books in Print Supplement - 1984