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associates in the institutions of higher learning pursuing research degrees exploring various elds including electrical, electronics, communication, biomedical engineering, materials, renewable energy, mechatronics and professional engineering ethics  
Developing a system that can cope

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with variations of system or control parameters, measurement uncertainty, and complex, multi-objective optimization criteria is a frequent problem in engineering systems design. The need for a priori knowledge and the inability to learn from past experience make the design

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of robust, adaptive, and stable systems a difficult task. Innovation in Power, Control, and Optimization: Emerging Energy Technologies unites research on the development of techniques and methodologies to improve the performance of power systems, energy planning and

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environments, controllers and robotics, operation research, and modern artificial computational intelligent techniques. Containing research on power engineering, control systems, and methods of optimization, this book is written for professionals who want to improve their understanding of

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strategic developments in the area of power, control, and optimization.

A unique combination of theoretical knowledge and practical analysis experience Derived from Yoshihide Hases Handbook of Power Systems Engineering, 2nd Edition, this book provides readers with everything they

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need to know about power system dynamics. Presented in three parts, it covers power system theories, computation theories, and how prevailed engineering platforms can be utilized for various engineering works. It features many illustrations based on ETAP to help explain the knowledge

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within as much as possible.

Recompiling all the chapters from the previous book, Power System Dynamics with Computer Based Modeling and Analysis offers nineteen new and improved content with updated information and all new topics, including two new chapters on



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circuit analysis which help engineers with non-electrical engineering backgrounds. Topics covered include: Essentials of Electromagnetism; Complex Number Notation (Symbolic Method) and Laplace-transform; Fault Analysis Based on Symmetrical Components; Synchronous

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Generators; Induction-motor;  
Transformer; Breaker; Arrester;  
Overhead-line; Power cable; Steady-  
State/Transient/Dynamic Stability;  
Control governor; AVR; Directional  
Distance Relay and R-X Diagram;  
Lightning and Switching Surge  
Phenomena; Insulation Coordination;

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Harmonics; Power Electronics Applications (Devices, PE-circuit and Control) and more. Combines computer modeling of power systems, including analysis techniques, from an engineering consultants perspective Uses practical analytical software to help teach how to obtain the relevant

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data, formulate what-if cases, and convert data analysis into meaningful information Includes mathematical details of power system analysis and power system dynamics Power System Dynamics with Computer-Based Modeling and Analysis will appeal to all power system engineers

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several energy sources, including  
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*Generated power is needed to be transferred over long distances to support load requirements of customers, viz., residential, industrial, and commercial. This necessitates proper design and analysis of power systems to efficiently control the*

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*power flow from one point to the other without delay, disturbance, or interference. Ideal for utility and power system design professionals and students, this book is richly illustrated with MATLAB® and Electrical Transient Analysis Program (ETAP®)*



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*to succinctly illustrate concepts throughout, and includes examples, case studies, and problems. Features Illustrated throughout with MATLAB and ETAP Proper use of positive/negative/zero sequence analysis of a given one-line diagram*

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*(OLD) associated with a grid, as well as finger-holding instructions to tackle a power system analysis (PSA) problem for a given OLD of a grid On-line evaluation of power flow, short-circuit analysis, and related PSA for a given OLD Appropriately learn the*

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*finer nuances of designing the several components of a PSA, including transmission lines, transformers, generators/motors, and illustrate the corresponding equivalent circuit Case studies from utilities and independent system operators*

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*Computer Science and Information  
Technology, Electrical and Electronic  
Technology, E computing  
Technologies, Technology for  
Language and Literature Study, e  
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This is an introduction to power*

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*system analysis and design. The text contains fundamental concepts and modern topics with applications to real-world problems, and integrates MATLAB and SIMULINK throughout.*

*The capability of effectively analyzing*

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*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*

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*System*

*2020 2nd Global Power, Energy and  
Communication Conference  
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This book consolidates some of the most promising advanced smart grid functionalities and provides a

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comprehensive set of guidelines for their implementation/evaluation using DlgSILENT Power Factory. It includes specific aspects of modeling, simulation and analysis, for example wide-area monitoring, visualization and control, dynamic capability

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rating, real-time load measurement and management, interfaces and co-simulation for modeling and simulation of hybrid systems. It also presents key advanced features of modeling and automation of calculations using PowerFactory,

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such as the use of domain-specific (DSL) and DlgSILENT Programming (DPL) languages, and utilizes a variety of methodologies including theoretical explanations, practical examples and guidelines. Providing a concise compilation of significant

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outcomes by experienced users and developers of this program, it is a valuable resource for postgraduate students and engineers working in power-system operation and planning.

\* Basic power quality strategies and methods to protect electronic systems

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validated collection of abbreviations, acronyms, contractions and symbols within astronomy, related space sciences and other related fields. As such, this invaluable reference source (and its companion volume, StarGuides Plus) should be on the

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are also covered when justified. Terms in common use and/or of general interest have also been included where appropriate.

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power systems. However, few, if any, are totally devoted to power distribution engineering, and none of them are true textbooks. Filling this vacuum in the power system engineering literature, the first edition of Electric Power Distribution System

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Engineering broke new ground. Written in the classic, self-learning style of the first edition, this second edition contains updated coverage, new examples, and numerous examples of MATLAB applications. Designed specifically for junior- or

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senior-level electrical engineering courses, the author draws on his more than 31 years of experience to provide a text that is as attractive to students as it is useful to professors and practicing engineers. The book covers all aspects of distribution engineering

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from basic system planning and concepts through distribution system protection and reliability. The author brings to the table years of experience and, using this as a foundation, demonstrates how to design, analyze, and perform modern distribution

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system engineering. He takes special care to cover industry terms and symbols, providing a glossary and clearly defining each term when it is introduced. The discussion of distribution planning and design considerations goes beyond the usual

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analytical and qualitative analysis and emphasizes the economical explication and overall impact of the distribution design considerations discussed. See what's new in the Second Edition: Topics such as automation of distribution systems,



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Electric Power System Planning

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opportunity to share the  
most recent research  
outcomes in the areas of  
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Drives, Power  
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Conventional and  
Renewable Energy  
Systems, recent  
technologies of

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Microgrids and Smart  
Grids, Communication  
Systems and Technologies  
It is aimed to create a  
professional network  
among researchers,  
academicians,

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professionals,  
engineers, and industry  
on the focused and  
related research areas  
of the entire energy  
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energy, and  
communication systems  
research papers  
presenting the control,  
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technical track (TT)  
fields are strongly  
encouraged

Thermal power plants are  
one of the most  
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engineering

professionals. Over the past few decades, the power sector has been facing a number of critical issues.

However, the most

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fundamental challenge is meeting the growing power demand in sustainable and efficient ways.

Practicing power plant engineers not only look

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after operation and maintenance of the plant, but also look after a range of activities, including research and development, starting

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from power generation,  
to environmental  
assessment of power  
plants. The book Thermal  
Power Plants covers  
features, operational  
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limitations of power plants, as well as benefits of renewable power generation. It also introduces thermal performance analysis, fuel combustion issues,

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performance monitoring  
and modelling, plants  
health monitoring,  
including component  
fault diagnosis and  
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plant operation and maintenance, and environmental aspects. This book addresses several issues related to both coal fired and gas turbine power



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plants. The book is suitable for both undergraduate and research for higher degree students, and of course, for practicing power plant engineers.

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"At a time when bulk power systems operate close to their design limits, the restructuring of the electric power industry has created

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vulnerability to potential blackouts. Prompt and effective power system restoration is essential for the minimization of downtime and costs to the utility

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and its customers, which mount rapidly after a system blackout. Power System Restoration meets the complex challenges that arise from the dynamic capabilities of

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new technology in areas  
such as large-scale  
system analysis,  
communication and  
control, data  
management, artificial  
intelligence, and allied

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disciplines. It provides  
an up-to-date  
description of the  
restoration  
methodologies and  
implementation  
strategies practiced

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internationally. The book opens with a general overview of the restoration process and then covers: \*

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voltage transmission  
systems \* Restoration of  
distribution systems  
Power System Restoration  
is essential reading for  
all power system  
planners and operating

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engineers in the power industry. It is also a valuable reference for researchers, practicing power engineers, and engineering students."

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Management

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Conference on Industrial  
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Electronics (ICIEE)  
Intelligent Electrical  
Systems:

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Solar Energy is an authoritative reference on the design of solar energy systems in building projects, with applications, operating principles, and simple tools for the construction, engineering,

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and design professional. The book simplifies the solar design and engineering process, providing sample documentation and special tools that provide all the information needed for the complete design of a solar

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energy system for buildings to enable mainstream MEP and design firms, and not just solar energy specialists, to meet the growing demand for solar energy systems in building projects.

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the most up-to-date information on power system dynamics The revised third edition of Power System Dynamics and Stability contains a comprehensive, state-of-the-art review of information on the topic.



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The third edition continues the successful approach of the first and second editions by progressing from simplicity to complexity. It places the emphasis first on understanding the underlying physical principles before

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proceeding to more complex models and algorithms. The book is illustrated by a large number of diagrams and examples. The third edition of Power System Dynamics and Stability explores the influence of wind farms and

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virtual power plants, power plants inertia and control strategy on power system stability. The authors—noted experts on the topic—cover a range of new and expanded topics including: Wide-area monitoring and control

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systems. Improvement of power system stability by optimization of control systems parameters. Impact of renewable energy sources on power system dynamics. The role of power system stability in planning of

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power system operation and transmission network expansion. Real regulators of synchronous generators and field tests. Selectivity of power system protections at power swings in power system. Criteria for

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switching operations in transmission networks. Influence of automatic control of a tap changing step-up transformer on the power capability area of the generating unit.

Mathematical models of power

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system components such as HVDC links, wind and photovoltaic power plants. Data of sample (benchmark) test systems. Power System Dynamics: Stability and Control, Third Edition is an essential resource for

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students of electrical engineering and for practicing engineers and researchers who need the most current information available on the topic. The present book addresses various power system



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planning issues for professionals as well as senior level and postgraduate students. Its emphasis is on long-term issues, although much of the ideas may be used for short and mid-term cases, with

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some modifications. Back-up materials are provided in twelve appendices of the book. The readers can use the numerous examples presented within the chapters and problems at the end of the chapters, to make

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sure that the materials are adequately followed up.

Based on what Matlab provides as a powerful package for students and professional, some of the examples and the problems are solved in using M-files

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especially developed and attached for this purpose. This adds a unique feature to the book for in-depth understanding of the materials, sometimes, difficult to apprehend mathematically. Chapter 1

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provides an introduction to Power System Planning (PSP) issues and basic principles. As most of PSP problems are modeled as optimization problems, optimization techniques are covered in some details in Chapter 2.

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Moreover, PSP decision makings are based on both technical and economic considerations, so economic principles are briefly reviewed in Chapter 3. As a basic requirement of PSP studies, the load has to be

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known. Therefore, load forecasting is presented in Chapter 4. Single bus Generation Expansion Planning (GEP) problem is described in Chapter 5. This study is performed using WASP-IV, developed by

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International Atomic Energy Agency. The study ignores the grid structure. A Multi-bus GEP problem is discussed in Chapter 6 in which the transmission effects are, somehow, accounted for. The results of single bus GEP is



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used as an input to this problem. SEP problem is fully presented in Chapter 7. Chapter 8 devotes to Network Expansion Planning (NEP) problem, in which the network is planned. The results of NEP, somehow,

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fixes the network structure. Some practical considerations and improvements such as multi-voltage cases are discussed in Chapter 9. As NEP study is typically based on some simplifying assumptions and

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Direct Current Load Flow (DCLF) analysis, detailed Reactive Power Planning (RPP) study is finally presented in Chapter 10, to guarantee acceptable ACLF performance during normal as well as contingency

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conditions. This, somehow, concludes the basic PSP problem. The changing environments due to power system restructuring dictate some uncertainties on PSP issues. It is shown in Chapter 11 that how these

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uncertainties can be accounted for. Although is intended to be a text book, PSP is a research oriented topic, too. That is why Chapter 12 is devoted to research trends in PSP. The chapters conclude with a

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comprehensive example in Chapter 13, showing the step-by-step solution of a practical case.

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sources of energy. Sometimes called the "electronet" or the "energy Internet," smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical



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advanced metering infrastructure, net zero energy buildings, and communication, data management, and networks in smart grids. The accomplished authors also discuss critical challenges

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**Each volume separately  
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dictionary).

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system component models  
and efficient  
computational techniques  
in the development of a  
new generation of programs**

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representing the steady  
and dynamic states of  
electrical power systems.  
Presents main  
computational and  
transmission system  
developments. Derives

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**steady state models of  
a.c. and d.c. power  
systems plant components,  
describes a general  
purpose phase a.c. load  
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**aided analysis, in order  
to perform specific power  
system studies of the  
following: short-circuit,  
load flow, motor-starting,  
cable ampacity, stability,  
harmonic analysis,**

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reliability, ground mat,  
protective coordination,  
dc auxiliary power system,  
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**significant role to  
enhance grid efficiency by  
alleviating volatility  
from demand and supply.  
Energy storage also  
contributes to the grid  
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**energy and promotion of  
microgrid.**

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Functionalities Based on  
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**looks like one of the craziest things a human being could spend his or her time on. Yet nobody would wonder at someone taking a short walk every day - after twenty five years that person would have**

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**covered a surprisingly long distance. This is exactly the story behind this list, which appeared first as a few pages within the directory StarGuides (or whatever name it had at that time) and as a**

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**distinct sister publication since 1990. The idea behind this dictionary is to offer astronomers and related space scientists practical assistance in decoding the numerous abbreviations, acronyms,**

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**contractions and symbols  
which they might encounter in  
all aspects of the vast range of  
their professional activities,  
including traveling. Perhaps it  
is a bit paradoxical, but if  
scientists quickly grasp the**

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**meaning of an acronym solely in their own specific discipline, they will probably encounter more difficulties when dealing with adjacent fields. It is for this purpose that this dictionary might be most often**

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**used. Scientists might also refer to this compilation in order to avoid identifying a project by an acronym which already has too many meanings or confused definitions.**

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**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**



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**and penalty factors; and new problems and examples throughout.**

**The object of this book is to teach the beginner the basics of three popular power system analysis programs. These**

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**programs are designed to simulate and analyze electrical power generation and distribution systems in normal operation and in short-circuit. The programs also have many add-on options like protection**

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**selection, arc flash analysis,  
transmission line sag &  
tension, raceway calculations,  
transient motor starting, etc.  
The programs have Demo  
(demonstration or trial)  
versions to allow people to**

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**tryout and learn about them. This book provides the engineer and technologist with information needed to use the Demo versions of SKM, ETAP, and EDSA for load flow and short-circuit analysis. The**

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**beginner learns how to use them on a small, but realistic, three-phase power system. The information gained is similar to that which students pay for in company-taught "Introduction to ..." courses.**

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**However, with this book, the student avoids paying tuition, learns at times of his own convenience, and can compare the different programs. In this book, load flow (power-flow) and short-circuit analyses are**

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**done on a small steady-state three-phase power system with manual methods. Then, each program is used to carry out the same analyses. Since in practice, three-phase systems are the most often**

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