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Manual  
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Maintaining  
appropriate power  
systems and  
equipment expertise

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is necessary for a utility to support the reliability, availability, and quality of service goals demanded by energy consumers now and into the future. However, transformer talent is at a premium today, and all aspects of the power industry are suffering a

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diminishing of the supply of knowledgeable and experienced engineers. Now in print for over 80 years since initial publication in 1925 by Johnson & Phillips Ltd, the J & P Transformer Book continues to withstand the test of time as a key body of

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reference material for  
students, teachers,  
and all whose careers  
are involved in the  
engineering  
processes associated  
with power delivery,  
and particularly with  
transformer design,  
manufacture, testing,  
procurement,  
application,  
operation,  
maintenance,

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condition assessment  
and life extension.

Current experience  
and knowledge have  
been brought into  
this thirteenth edition  
with discussions on  
moisture equilibrium  
in the insulation  
system, vegetable  
based natural ester  
insulating fluids,  
industry concerns  
with corrosive

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sulphur in oil,  
geomagnetic induced  
current (GIC)  
impacts,  
transportation issues,  
new emphasis on  
measurement of load  
related noise, and  
enhanced treatment  
of dielectric testing  
(including Frequency  
Response Analysis),  
Dissolved Gas  
analysis (DGA)

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techniques and tools,  
vacuum LTCs, shunt  
and series reactors,  
and HVDC converter  
transformers. These  
changes in the  
thirteenth edition  
together with  
updates of IEC  
reference Standards  
documentation and  
inclusion for the first  
time of IEEE  
reference Standards,

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provide recognition that the transformer industry and market is truly global in scale. -- From the foreword by Donald J. Fallon Martin Heathcote is a consultant specializing in power transformers, primarily working for utilities. In this context he has



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established working  
relationships with

transformer

manufacturers on

several continents.

His background with

Ferranti and the UK's

Central Electricity

Generating Board

(CEGB) included

transformer design

and the management

and maintenance of

transformer-based

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systems. \* The definitive reference for all involved in designing, installing, monitoring and maintaining high-voltage systems using power transformers (electricity generation and distribution sector; large-scale industrial applications) \* The

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classic reference  
work on power  
transformers and  
their applications:  
first published in  
1925, now brought  
fully up to date in this  
thirteenth edition \* A  
truly practical  
engineering approach  
to design, monitoring  
and maintenance of  
power transformers -  
in electricity

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generation,  
substations, and  
industrial  
applications.

Over the last century,  
energy storage  
systems (ESSs) have  
continued to evolve  
and adapt to  
changing energy  
requirements and  
technological  
advances. Energy  
Storage in Power

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Systems describes the essential principles needed to understand the role of ESSs in modern electrical power systems, highlighting their application for the grid integration of renewable-based generation. Key features: Defines the basis of electrical power systems,

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characterized by a high and increasing penetration of renewable-based generation. Describes the fundamentals, main characteristics and components of energy storage technologies, with an emphasis on electrical energy storage types.

Contains real

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examples depicting the application of energy storage systems in the power system. Features case studies with and without solutions on modelling, simulation and optimization techniques. Although primarily targeted at researchers and senior graduate students, Energy

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Storage in Power  
Systems is also

highly useful to  
scientists and  
engineers wanting to  
gain an introduction  
to the field of energy  
storage and more  
specifically its  
application to  
modern power  
systems.

This book enables the  
student to master the



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methods of analysis  
of isostatic and

hyperstatic  
structures. To show  
the performance of  
the methods of  
analysis of the  
hyperstatic  
structures, some  
beams, gantries and  
reticular structures  
are selected and  
subjected to a  
comparative study by

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the different methods of analysis of the hyperstatic structures. This procedure provides an insight into the methods of analysis of the structures.

This book proposes new control and protection schemes to improve the overall stability and security of future

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wide-area power systems. It focuses on the high penetration levels of renewable energy sources and distributed generation, particularly with the trend towards smart grids. The control methods discussed can improve the overall stability in

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normal and abnormal operation conditions, while the protection methods presented can be used to ensure the secure operation of systems under most severe contingencies.

Presenting stability, security, and protection methods for power systems in one concise volume,

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this book takes the reader on a journey from concepts and fundamentals to the latest and future trends in each topic covered, making it an informative and intriguing read for researchers, graduate students, and practitioners alike.

Smart Grids -

*Page 21/220*

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Fundamentals and  
Technologies in  
Electricity Networks  
Gas Turbines for  
Electric Power  
Generation  
Electric Distribution  
Systems  
The Lineman's and  
Cableman's Field  
Manual  
Energy Efficiency in  
Motor Driven  
Systems

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\* Basic power quality strategies and methods to protect electronic systems \* Nearly twice the size of the last edition--new chapters on distributed generation and benchmarking--over 200 pages of new material

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A comprehensive review of the theory and practice for designing, operating, and optimizing electric distribution systems, revised and updated Now in its second edition, Electric Distribution Systems has been revised and updated and



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continues to provide a two-tiered approach for designing, installing, and managing effective and efficient electric distribution systems. With an emphasis on both the practical and theoretical approaches, the text is a guide to the

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underlying theory and concepts and provides a resource for applying that knowledge to problem solving. The authors—noted experts in the field—explain the analytical tools and techniques essential for designing and operating electric

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distribution systems. In addition, the authors reinforce the theories and practical information presented with real-world examples as well as hundreds of clear illustrations and photos. This essential resource contains the information needed

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to design electric distribution systems that meet the requirements of specific loads, cities, and zones. The authors also show how to recognize and quickly respond to problems that may occur during system operations, as well as revealing

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how to improve the performance of electric distribution systems with effective system automation and monitoring. This updated edition: • Contains new information about recent developments in the field particularly in

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regard to renewable  
energy generation •

Clarifies the  
perspective of  
various aspects  
relating to protection  
schemes and  
accompanying  
equipment •

Includes illustrative  
descriptions of a  
variety of distributed  
energy sources and

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their integration with  
distribution systems

- Explains the intermittent nature of renewable energy sources, various types of energy storage systems and the role they play to improve power quality, stability, and reliability
- Written for

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engineers in electric utilities, regulators, and consultants working with electric distribution systems planning and projects, the second edition of Electric Distribution Systems offers an updated text to both the theoretical underpinnings and



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practical applications of electrical distribution systems.

The new edition of POWER SYSTEM ANALYSIS AND DESIGN provides students with an introduction to the basic concepts of power systems along with tools to

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aid them in applying these skills to real world situations.

Physical concepts are highlighted while also giving necessary attention to mathematical techniques. Both theory and modeling are developed from simple beginnings so that they can be

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readily extended to new and complex situations. The authors incorporate new tools and material to aid students with design issues and reflect recent trends in the field. Important Notice: Media content referenced within the product

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description or the product text may not be available in the ebook version.

The interstate integration of power grids provides multiple advantages concerning operation security, integration of renewable energy as well as energy

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trading. Due to these facts grid interconnections, such as ENTSO-E in Continental Europe, expand continually since its establishment. Due to the increasing scale and distance of interconnected power systems as well as an

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increasing number of countries involved with increasing complexity of operation, comprehensive R&D and innovations are urgently required to assure reliable and efficient operation of power systems. In this book new tools

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and methods are presented for monitoring, control and protection of large scale power systems. These tools and methods consider Smart Grid technologies based on wide area data exchange in combination with modern

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measurement devices, such as PMUs and advanced network controllers such as FACTS and HVDC systems. Within this topic the impact and reliability of different communication technologies play a key role. The material of this book



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is based on final results from the international research project ICOEUR "Intelligent Coordination of Operation and Emergency Control of EU and Russian Power Grids", supported by the European Commission and the

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Russian Federal Agency of Science and Innovation. This book provides a great value for professional power system engineers as well as for students interested in topics related to large scale power system monitoring, control, protection

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and operation.

Handbook of  
Terminal Planning  
Thomas Register  
Structural Analysis 2  
Analysis and Design  
of Electrical Power  
Systems  
High Voltage Direct  
Current  
Transmission

\* A practical guide  
to the control of

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reactive power  
systems \*Ideal for  
postgraduate and  
professional  
courses \*Covers  
the latest  
equipment and  
computer-aided  
analysis A  
definitive new  
guide to the  
control of active  
and reactive

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power, featuring  
the latest  
developments  
including FACTS  
Power Electronic  
Control in  
Electrical  
Systems offers a  
solid theoretical  
foundation for the  
electronic control  
of active and  
reactive power,

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providing an overview of the composition of electrical power networks; a basic description of the most popular power systems studies; and coverage of the roles of Flexible Alternating Current

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Transmission  
Systems

(FACTS) and  
Custom Power  
equipment.

Developments in  
power electronics  
have opened up  
new ways in  
which power  
control may be  
achieved not only  
in high-voltage

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transmission systems but also in low-voltage distribution systems, and the coverage of these developments makes this new book on active and reactive power control in electrical power systems essential



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reading for  
advanced  
students,  
engineers and  
academics alike.  
Within this book  
the fundamental  
concepts  
associated with  
the topic of power  
electronic control  
are covered  
alongside the

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latest equipment and devices, new application areas and associated computer-assisted methods.

Covering the fundamental theory of electric power transformers, this book provides the background

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required to understand the basic operation of electromagnetic induction as applied to transformers. The book is divided into three fundamental groupings: one stand-alone chapter is devoted

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to Theory and  
Principles, nine  
chapters  
individually treat  
majo

Combining select  
chapters from  
Grigsby's  
standard-setting  
The Electric  
Power  
Engineering  
Handbook with

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several chapters  
not found in the  
original work,  
Electric Power  
Substations  
Engineering  
became widely  
popular for its  
comprehensive,  
tutorial-style  
treatment of the  
theory, design,  
analysis,

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operation, and  
protection of  
power

substations. For  
its

Chapter 1: System  
Studies -- Chapter  
2: Drawings and  
Diagrams --

Chapter 3:  
Substation  
Layouts --

Chapter 4:

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Substation  
Auxiliary Power  
Supplies --  
Chapter 5:  
Current and  
Voltage  
Transformers --  
Chapter 6:  
Insulators --  
Chapter 7:  
Substation  
Building Services  
-- Chapter 8:

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Earthing and  
Bonding --

Chapter 9:  
Insulation Co-  
ordination --

Chapter 10: Relay  
Protection --

Chapter 11: Fuses  
and Miniature  
Circuit Breakers

-- Chapter 12:

Cables -- Chapter

13: Switchgear --



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Chapter 14:  
Power

Transformers --

Chapter 15:

Substation and  
Overhead Line  
Foundations --

Chapter 16:

Overhead Line

Routing -- Chapter

17: Structures,

Towers and Poles

-- Chapter 18:

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Overhead Line  
Conductor and  
Technical  
Specifications --  
Chapter 19:  
Testing and  
Commissioning --  
Chapter 20:  
Electromagnetic  
Compatibility --  
Chapter 21:  
Supervisory  
Control and Data

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Acquisition --

Chapter 22:

Project

Management --

Chapter 23:

Distribution

Planning --

Chapter 24:

Power Quality-

Harmonics in

Power Systems --

Chapter 25:

Power Qual ...

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Lineman's and  
Cableman's

Handbook 12th  
Edition

A Practical Guide  
and Commentary  
on NEC and IEC  
60364

Electric Power  
Transformer  
Engineering  
Power System  
Analysis and

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Design  
Power Electronic  
Control in  
Electrical  
Systems

*This book provides an account of the field of synchronized Phasor Measurement technology, its beginning, its technology and its principal applications.*

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*It covers wide Area  
Measurements ( WAM)  
and their applications.  
The measurements are  
done using GPS  
systems and eventually  
will replace the existing  
technology. The  
authors created the  
field about twenty  
years ago and most of  
the installations  
planned or now in*

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*existence around the world are based on their work.*

*This book reports the state of the art of energy-efficient electrical motor driven system technologies, which can be used now and in the near future to achieve significant and cost-effective energy savings. It*

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*includes the recent developments in advanced electrical motor end-use devices (pumps, fans and compressors) by some of the largest manufacturers.*

*Policies and programs to promote the large scale penetration of energy-efficient technologies and the*



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*market transformation  
are featured in the  
book, describing the  
experiences carried out  
in different parts of  
the world. This  
extensive coverage  
includes contributions  
from relevant  
institutions in the  
Europe, North  
America, Latin  
America, Africa, Asia,*

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*Australia and New  
Zealand.*

*This handbook serves  
as a guide to deploying  
battery energy storage  
technologies,  
specifically for  
distributed energy  
resources and  
flexibility resources.*

*Battery energy storage  
technology is the most  
promising, rapidly*

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*developed technology as it provides higher efficiency and ease of control. With energy transition through decarbonization and decentralization, energy storage plays a significant role to enhance grid efficiency by alleviating volatility from demand and*

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*supply. Energy storage also contributes to the grid integration of renewable energy and promotion of microgrid.*

*Due to its high impact on the cost of electricity and its direct correlation with customer satisfaction, distribution reliability continues to be one of*

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*the most important  
topics in the electric  
power industry.*

*Continuing in the  
unique tradition of the  
bestselling first edition,  
Electric Power  
Distribution Reliability,  
Second Edition  
consolidates all  
pertinent topics on  
electric power  
distribution into one*

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*Manual 11th  
Edition Free*  
*comprehensive volume  
balancing theory,  
practical knowledge,  
and real world  
applications. Updated  
and expanded with  
new information on  
benchmarking, system  
hardening,  
underground  
conversion, and aging  
infrastructure, this  
timely reference*

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*enables you to— .*

*Manage aging  
infrastructure · Harden  
electric power*

*distribution systems ·*

*Avoid common  
benchmarking pitfalls ·*

*Apply effective risk  
management The*

*electric power industry  
will continue to make  
distribution system*

*reliability and customer-*

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*level reliability a top priority. Presenting a wealth of useful knowledge, Electric Power Distribution Reliability, Second Edition remains the only book that is completely dedicated to this important topic. Power Transformer Diagnostics, Monitoring and Design*



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*Features*

*Transmission and  
Distribution Electrical  
Engineering  
Power System Analysis  
China's Cement  
Industry  
Wide Area Power  
Systems Stability,  
Protection, and  
Security*

Featuring extensive  
calculations and

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examples, this reference discusses theoretical and practical aspects of short-circuit currents in ac and dc systems, load flow, and harmonic analyses to provide a sound knowledge base for modern computer-based studies that can be utilized in real-

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world applications.

Presenting more than  
2300 figures, tables,  
and

The second edition of  
this popular  
engineering reference  
book, previously titles  
Newnes Electrical  
Engineer's  
Handbook, provides a  
basic understanding of  
the underlying theory

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and operation of the  
major classes of  
electrical equipment.

With coverage  
including the key  
principles of electrical  
engineering and the  
design and operation  
of electrical  
equipment, the book  
uses clear descriptions  
and logical  
presentation of data to

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explain electrical power and its applications. Each chapter is written by leading professionals and academics, and many sections conclude with a summary of key standards. The new edition is updated in line with recent advances in EMC,

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power quality and the  
structure and

operation of power  
systems, making

Newnes Electrical  
Power Engineer's

Handbook an

invaluable guide for  
today's electrical

power engineer. · A  
unique, concise

reference book with  
contributions from

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eminent professionals  
in the field · Provides  
straightforward and  
practical explanations,  
plus key information  
needed by engineers  
on a day-to-day basis ·  
Includes a summary of  
key standards at the  
end of each chapter  
A one-stop resource  
on how to design  
standard-compliant

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low voltage electrical systems This book helps planning engineers in the design and application of low voltage networks. Structured according to the type of electrical system, e.g. asynchronous motors, three-phase networks, or lighting systems, it covers the



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respective electrical and electrotechnical fundamentals, provides information on the implementation of the relevant NEC and IEC standards, and gives an overview of applications in industry. Analysis and Design of Electrical Power Systems: A Practical Guide and

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Commentary on NEC and IEC 60364 starts by introducing readers to the subject before moving on to chapters on planning and project management. It then presents readers with complete coverage of medium- and low-voltage systems, transformers, asynchronous motors

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(ASM), switchgear combinations, emergency generators, and lighting systems.

It also looks at equipment for overcurrent protection and protection against electric shock, as well as selectivity and backup protection. A chapter on the current carrying capacity of

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conductors and cables comes next, followed by ones on calculation of short circuit currents in three-phase networks and voltage drop calculations.

Finally, the book takes a look at compensating for reactive power and finishes with a section on lightning

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protection systems.  
Covers a subject of  
great international  
importance Features  
numerous tables,  
diagrams, and worked  
examples that help  
practicing engineers in  
the planning of  
electrical systems  
Written by an expert  
in the field and  
member of various

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national and  
international  
standardization

committees

Supplemented with  
programs on an  
accompanying website  
that help readers

reproduce and adapt  
calculations on their  
own Analysis and  
Design of Electrical  
Power Systems: A

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Practical Guide and  
Commentary on NEC  
and IEC 60364 is an  
excellent resource for  
all practicing  
engineers such as  
electrical engineers,  
engineers in power  
technology, etc. who  
are involved in  
electrical systems  
planning.

Shipboard Propulsion,  
*Page 87/220*

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Power Electronics,  
and Ocean Energy  
fills the need for a  
comprehensive book  
that covers modern  
shipboard propulsion  
and the power  
electronics and ocean  
energy technologies  
that drive it. With a  
breadth and depth not  
found in other books,  
it examines the power



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electronics systems for ship propulsion and for extracting ocean energy, which are mirror images of each other. Comprised of sixteen chapters, the book is divided into four parts: Power Electronics and Motor Drives explains basic power electronics converters and

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variable-frequency drives, cooling methods, and quality of power Electric Propulsion Technologies focuses on the electric propulsion of ships using recently developed permanent magnet and superconducting motors, as well as

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hybrid propulsion  
using fuel cell,  
photovoltaic, and  
wind power

Renewable Ocean  
Energy Technologies  
explores renewable  
ocean energy from  
waves, marine  
currents, and offshore  
wind farms System  
Integration Aspects  
discusses two

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aspects—energy storage and system reliability—that are essential for any large-scale power system

This timely book evolved from the author's 30 years of work experience at General Electric, Lockheed Martin, and Westinghouse Electric and 15 years of

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teaching at the U.S.  
Merchant Marine

Academy. As a  
textbook, it is ideal for  
an elective course at  
marine and naval  
academies with  
engineering programs.  
It is also a valuable  
reference for  
commercial and  
military shipbuilders,  
port operators,

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renewable ocean  
energy developers,  
classification  
societies, machinery  
and equipment  
manufacturers,  
researchers, and others  
interested in modern  
shipboard power and  
propulsion systems.  
The information  
provided herein does  
not necessarily

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represent the view of  
the U.S. Merchant  
Marine Academy or  
the U.S. Department  
of Transportation.

This book is a  
companion to  
Shipboard Electrical  
Power Systems (CRC  
Press, 2011), by the  
same author.

The Gas Turbine  
Handbook

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Power Electronics  
Design

Short-Circuit Load  
Flow and Harmonics  
Water and Energy  
J & P Transformer  
Book

**This book  
addresses the  
very latest  
research and  
development  
issues in high**



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voltage  
technology and  
is intended as  
a reference  
source for  
researchers and  
students in the  
field,  
specifically  
covering  
developments  
throughout the  
past decade.

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This unique  
blend of expert  
authors and  
comprehensive  
subject  
coverage means  
that this book  
is ideally  
suited as a  
reference  
source for  
engineers and  
academics in

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the field for  
years to come.

This book  
presents  
intuitive  
explanations of  
the principles  
of microgrids,  
including their  
structure and  
operation and  
their  
applications.

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It also  
discusses the  
latest research  
on microgrid  
control and  
protection  
technologies  
and the  
essentials of  
microgrids as  
well as  
enhanced  
communication

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systems. The book provides solutions to microgrid operation and planning issues using various methodologies including planning and modelling; AC and DC hybrid microgrids;

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energy storage  
systems in

microgrids; and  
optimal  
microgrid  
operational  
planning.

Written by  
specialists, it  
is filled in  
innovative  
solutions and  
research

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related to  
microgrid  
operation,  
making it a  
valuable  
resource for  
those  
interested in  
developing  
updated  
approaches in  
electric power  
analysis,

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design and  
operational  
strategies.

Thanks to its  
in-depth  
explanations  
and clear,  
three-part  
structure, it  
is useful for  
electrical  
engineering  
students,



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researchers and  
technicians.

The handbook  
further

addresses the  
issue of

protection of  
switchgears,

including

protection

schemes for

medium voltage

switchgears,

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generator  
protection for  
large  
generators, EHV  
transmission  
system control  
and protection,  
and integrated  
protection and  
control systems  
for sub-  
stations. The  
erection,

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commissioning,  
operation and  
maintenance  
aspects of  
switchgears  
under various  
conditions are  
also included,  
with experience-  
based  
information on  
the dos and  
don'ts of site

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Switchgear  
Manual 11th

work,

inspection, and  
maintenance  
procedures.

With its  
coverage of  
general  
concepts as  
well as  
consolidated  
information in  
the context of  
Indian

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conditions,  
this book is an  
essential  
reference for  
all practicing  
switchgear  
engineers,  
institutions,  
and  
academicians.  
Everything you  
wanted to know  
about

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industrial gas  
turbines for  
electric power  
generation in  
one source with  
hard-to-find,  
hands-on  
technical  
information.

Handbook of  
Switchgears

A

Practitioner's

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Manual 11th  
Guide  
Edition Free

Handbook on  
Battery Energy  
Storage System  
Threats and  
Opportunities  
***This book is a  
printed edition of  
the Special Issue  
"Power  
Transformer  
Diagnostics,***

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**Monitoring and  
Design Features"**  
**that was published  
in Energies**

**This book  
describes a variety  
of reasons  
justifying the use  
of DC transmission  
as well as the basic  
concepts and  
techniques  
involved in the AC-  
DC and DC-AC**



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**conversion  
processes.**

**Efficient  
transmission and  
distribution of  
electricity is a  
fundamental  
requirement for  
sustainable  
development and  
prosperity. The  
world is facing  
great challenges  
regarding the**

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**reliable grid**

**integration of  
renewable energy  
sources in the 21st  
century. The  
electric power  
systems of the  
future require  
fundamental  
innovations and  
enhancements to  
meet these  
challenges. The  
European Union's**

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Edition Free

***“Smart Grid”  
vision provides a  
first overview of  
the appropriate  
deep-paradigm  
changes in the  
transmission,  
distribution and  
supply of  
electricity. The  
book brings  
together common  
themes beginning  
with Smart Grids***

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Manual 11th  
Edition Free

***and the characteristics of new power plants based on renewable energy and /or highly efficient generation principles. It covers the advanced technologies applied today in the transmission***

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Manual 11th  
Edition Free  
***and distribution  
networks and  
innovative  
solutions for  
maintaining  
today's high power  
quality under the  
challenging  
conditions of large-  
scale shares of  
volatile renewable  
energy sources in  
the annual energy  
balance. Besides***

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**considering the  
new primary and  
secondary  
technology  
solutions and  
control facilities  
for the  
transmission and  
distribution  
networks,  
prospective market  
conditions allowing  
network operators  
and the network**

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***users to gain benefits are also discussed. The growing role of information and communication technologies is investigated. The importance of new standards is underlined and the current international efforts in***

***developing a consistent set of standards are described in detail. The presentation of international experiences to apply novel Smart Grid solutions to the practice of network operation concludes this book. The authors of the book worked***



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***for many years to develop Smart Grid solutions within national and international projects and to introduce them in the practice of network operations. Energy efficiency is finally a common sense term.***

***Nowadays almost***

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**everyone knows  
that using energy  
more efficiently  
saves money,  
reduces the  
emissions of  
greenhouse gasses  
and lowers  
dependence on  
imported fossil  
fuels. We are living  
in a fossil age at  
the peak of its  
strength.**

***Competition for securing resources for fuelling economic development is increasing, price of fuels will increase while availability of would gradually decline. Small nations will be first to suffer if caught unprepared in the midst of the***

***struggle for  
resources among  
the large players.  
Here it is where  
energy efficiency  
has a potential to  
lead toward the  
natural next step -  
transition away  
from imported  
fossil fuels!  
Someone said that  
the only thing  
more harmful than***

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Editing Free  
**fossil fuel is  
fossilized thinking.**

**It is our sincere  
hope that some of  
chapters in this  
book will influence  
you to take a fresh  
look at the  
transition to low  
carbon economy  
and the role that  
energy efficiency  
can play in that  
process.**

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***Handbook of Power  
Quality  
Statically  
Indeterminate  
Structures  
Energy Storage in  
Power Systems  
Substation  
Automation  
Handbook  
Energy Efficiency  
Container  
Terminals (CT)***

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**operate as  
central nodes in  
worldwide hub-  
and-spoke  
networks and  
link ocean-going  
vessels with  
smaller feeder  
vessels as well  
as with inbound  
and outbound  
hinterland**

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Manual 11th  
Edition Free

**transportation  
systems using  
road, rail, or  
inland  
waterways. The  
volume of  
transcontinental  
container flows  
has gained  
appreciably over  
the last five  
decades --**



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Manual 11th  
Edition Free

**throughput  
figures of CT  
reached new  
records,  
frequently with  
double-digit  
annual growth  
rates. Stimulated  
by throughput  
requirements  
and stronger  
competition**

Access Free Abb  
Switchgear  
Manual 11th  
Edition Free

**between  
terminals settled  
in the same  
region or serving  
a similar  
hinterland,  
respectively, cost  
efficiency and  
throughput  
capabilities  
become more  
and more**

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Manual 11th  
Edition Free

**important.**

**Nowadays, both terminal capacity and costs have to be regarded as key indicators for CT competitiveness. In respect of this steady growth, this handbook focuses on**

**planning activities being aimed at “order of magnitude improvements” in terminal performance and economic viability. On the one hand the book is intended to provide**

Access Free Abb  
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Manual 11th  
Edition Free  
**readership with  
technological  
and**

**organizational CT  
basics for  
strategic  
planning. On the  
other hand this  
book offers  
methodical  
assistance for  
fundamental**

**dimensioning of  
CT in terms of  
'technique',  
'organization' or  
'man'. The former  
primarily  
considers  
comprehensive  
information  
about container  
handling  
technologies**

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Edition Free

**representing the  
state of the art  
for present  
terminal  
operations, while  
the latter refers  
to  
methodological  
support  
comprising in  
particular  
quantitative**

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Manual 11th  
Edition Free

**solutions and  
modeling  
techniques for  
strategic terminal  
decisions as well  
as  
straightforward  
design  
guidelines. The  
handbook  
includes an  
introductory**



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**contribution  
which gives an  
overview of  
strategic  
planning  
problems at CT  
and introduces  
the contributions  
of the volume  
with regard to  
their relationship  
in this field.**

**Moreover, each paper contains a section or paragraph that describes the impact of findings investigated by the author(s) for problem-solving in long-term planning of CT**

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Manual 11th  
Edition Free

**(as an application domain). The handbook intends to provide solutions and insights that are valuable for both practitioners in industry who need effective**

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**planning  
approaches to  
overcome  
problems and  
weaknesses in  
terminal design/d  
evelopment and  
researchers who  
would like to  
inform  
themselves  
about the state of**

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Manual 11th  
Edition Free

**the art in  
methodology of  
strategic terminal  
planning or be  
inspired by new  
ideas. That is to  
say, the  
handbook is  
addressed to  
terminal planners  
in practice as  
well as to**

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**students of  
maritime courses  
of study and  
(application  
oriented)  
researchers in  
the maritime  
field.**

**This book serves  
as an invaluable  
reference to  
Power**

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**Electronics  
Design, covering  
the application of  
high-power  
semiconductor  
technology to  
large motor  
drives, power  
supplies, power  
conversion  
equipment,  
electric utility**

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Manual 11th  
Edition Free  
**auxiliaries and  
numerous other  
applications.**

**Design  
engineers,  
design drafters  
and technicians  
in the power  
electronics  
industry, as well  
as students  
studying power**



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Manual 11th  
Edition Free

**electronics in  
various contexts,  
will benefit from  
Keith Sueker's  
decades of  
experience in the  
industry. With  
this experience,  
the author has  
put the overall  
power  
electronics**

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Edition Free

**design process  
in the context of  
primary  
electronic  
components and  
the many  
associated  
components  
required for a  
system. The  
seeming  
complexity of**

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Edition Free

**power**

**electronics**

**design is made  
transparent with  
Keith Sueker's  
simple, direct  
language and a  
minimum  
reliance on  
mathematics.  
Readers will  
come away with**

Access Free Abb  
Switchgear  
Manual 11th  
Edition Free

**a wealth of  
practical design  
information that  
has hundreds of  
explanatory  
diagrams to  
support it, having  
also seen many  
examples of  
potential pitfalls  
in the design  
process. \* A**

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Edition Free

**down-to-earth  
approach, free of  
complex jargon  
and esoteric  
information. \***

**Over 200  
illustrations to  
clarify discussion  
points. \***

**Examples of  
costly design  
goofs will**

Access Free Abb  
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Manual 11th  
Edition Free

**provide  
invaluable  
cautionary  
advice.**

**Rapid and  
important  
developments in  
the area of  
energy - water  
nexus over the  
last two to three  
years have been**

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Manual 11th  
Edition Free

**significant. This  
new edition of  
Water and  
Energy: Threats  
and  
Opportunities is  
timely and  
continues to  
highlight the  
inextricable link  
between water  
and energy,**

*Page 151/220*

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Manual 11th  
Edition Free

**providing an up-to-date overview of the subject with helpful detailed summaries of the technical literature. Water and Energy has been up-dated throughout and major changes**



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Manual 11th  
Edition Free

**are: new  
chapters on  
global warming  
and fossil fuels,  
including shale  
gas and fracking;  
the  
consequences of  
the Deepwater  
Horizon accident  
in the Mexican  
Gulf and the**

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Edition Free

**Niger Delta oil  
spills; new  
developments in  
hydropower; and  
continued  
competition  
between food,  
water and  
energy. Water  
and Energy  
Threats and  
Opportunities, 2e**

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Manual 11th  
Edition Free

**creates an awareness of the important couplings between water and energy. It shows how energy is used in all the various water cycle operations and demonstrates**

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Manual 11th  
Edition Free

**how water is  
used and  
misused in all  
kinds of energy  
production and g  
eneration. Popula  
tion increase,  
climate change  
and an  
increasing  
competition  
between food**

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Manual 11th  
Edition Free

**and fuel  
production  
create enormous  
pressures on  
both water and  
energy  
availability. Since  
there is no  
replacement for  
water, water  
security looks  
more crucial than**

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Edition Free

**energy security.**

**This is true not  
only in**

**developing  
countries but  
also in the most  
advanced**

**countries. For  
example, the  
western parts of  
the USA suffer  
from water**

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**scarcity that  
provides a real  
security threat.  
Part One of the  
book describes  
the water-energy  
nexus, the  
conflicts and  
competitions and  
the couplings  
between water  
security, energy**

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Edition Free

**security, and  
food security.**

**Part Two**

**captures how  
climate change,  
population  
increase and the  
growing food  
demand will have  
major impact on  
water availability  
in many**



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**countries in the world. Part Three describes water for energy and how energy production and conversion depend on water availability. As a consequence, all planning has to take both water**

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**and energy into  
consideration.**

**The  
environmental  
(including water)  
consequences of  
oil and coal  
exploration and  
refining are huge,  
in North America  
as well as in the  
rest of the world.**

**Furthermore, oil leak accidents have hit America, Africa, Europe as well as Asia. The consequences of hydropower are discussed and the competition between hydropower generation, flood**

**control and water storage is illustrated. The importance of water for cooling thermal power plants is described, as this was so tragically demonstrated at the Fukushima**

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**nuclear plants in  
2011. Climate  
change will  
further**

**emphasize the  
strong coupling  
between water  
availability and  
the operation of  
power plants.**

**Part Four  
analyses energy**

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**for water - how  
water production  
and treatment  
depend on  
energy. The book  
shows that a lot  
can be done to  
improve  
equipment,  
develop  
processes and  
apply advanced**

**monitoring and  
control to save  
energy for water  
operations.**

**Significant  
amounts of  
energy can be  
saved by better  
pumping, the  
reduction of  
leakages,  
controlled**

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**aeration in  
biological  
wastewater  
treatment, more  
efficient biogas  
production, and  
by improved  
desalination  
processes. There  
are 3 PowerPoint  
presentations  
available for**



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**Water and  
Energy - threats  
and  
opportunities, 2e.  
About the author  
Gustaf Olsson,  
Professor Em. in  
Industrial  
Automation,  
Lund University,  
Sweden Since  
2006, Gustaf has**

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**been Professor  
Emeritus at Lund  
University,  
Sweden. Gustaf  
has devoted his  
research to  
control and  
automation in  
water systems,  
electrical power  
systems and  
process**

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**industries. From  
2006 to 2008 he  
was part time  
professor in  
electrical power  
systems at  
Chalmers  
University of  
Technology,  
Sweden. He is  
guest professor  
at the Technical**

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**University of  
Malaysia (UTM)**

**and at the  
Tsinghua  
University in  
Beijing, China  
and he is an  
honorary faculty  
member of the  
Exeter University  
in UK. Between  
2005 and 2010 he**

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**was the editor-in-chief of the journals Water Science and Technology and Water Science and Technology/ Water Supply, (IWA Publishing). From 2007 to 2010, he was a member of the**

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**IWA Board of  
Directors and in  
2010 he received  
the IWA  
Publication  
Award. In 2012 he  
was the awardee  
of an Honorary  
Doctor degree at  
UTM and an  
Honorary  
Membership of**

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**IWA. Gustaf has guided 23 PhDs and a few hundred MSc students through their exams and has received the Lund University pedagogical award for distinguished achievements in**

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**the education".  
The Lund  
University  
engineering  
students elected  
him as the  
teacher of the  
year He has  
spent extended  
periods as a  
guest professor  
and visiting**



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**researcher at  
universities and  
companies in the  
USA, Australia  
and Japan and  
has been invited  
as a guest  
lecturer in 19  
countries outside  
Sweden. He has  
authored nine  
books published**

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**in English,  
Russian, German  
and Chinese and  
and contributed  
with chapters in  
another 19 books  
as well as more  
than 170  
scientific  
publications.  
Due to the  
complexity of**

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**power systems  
combined with  
other factors  
such as  
increasing  
susceptibility of  
equipment,  
power quality  
(PQ) is apt to  
waver. With  
electricity in  
growing demand,**

**low PQ is on the rise and becoming notoriously difficult to remedy. It is an issue that confronts professionals on a daily basis, but few have the required**

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Edition Free  
**knowledge to  
diagnose and  
solve these  
problems.**

**Handbook of  
Power Quality  
examines of the  
full panorama of  
PQ disturbances,  
with background  
theory and  
guidelines on**

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**measurement  
procedures and  
problem solving.  
It uses the  
perspectives of  
both power  
suppliers and  
electricity users,  
with  
contributions  
from experts in  
all aspects of PQ**

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**supplying a vital  
balance of  
scientific and  
practical  
information on  
the following:  
frequency  
variations; the  
characteristics of  
voltage,  
including dips,  
fluctuations and**

**flicker; the  
continuity and  
reliability of  
electricity supply,  
its structure,  
appliances and  
equipment; the  
relationship of  
PQ with power  
systems,  
distributed  
generation, and**



**the electricity  
market; the  
monitoring and  
cost of poor PQ;  
rational use of  
energy. An  
accompanying  
website hosts  
case studies for  
each chapter,  
demonstrating  
PQ practice; how**

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**problems are identified, analysed and resolved. The website also includes extensive appendices listing the current standards, mathematical**

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**formulas, and  
principles of  
electrical circuits  
that are critical  
for the  
optimization of  
solutions. This  
comprehensive  
handbook  
explains PQ  
methodology  
with a hands-on**

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**approach that  
makes it  
essential for all  
practising power  
systems  
engineers and  
researchers. It  
simultaneously  
acts as a  
reference for  
electrical  
engineers and**

**technical  
managers who  
meet with power  
quality issues  
and would like to  
further their  
knowledge in this  
area.**

**A Bridge to Low  
Carbon Economy  
Fundamentals,  
Types and**

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**Applications  
Synchronized  
Phasor  
Measurements  
and Their  
Applications  
Advances in High  
Voltage  
Engineering  
Electric Motors  
and Drives  
Energy**

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EfficiencyA

Bridge to Low  
Carbon

EconomyBoD -

Books on Demand

The definitive  
guide to

distribution and  
transmission

line technology-  
-fully updated

Completely  
revised to

reflect the 2012

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National  
Electrical  
Safety Code  
(NESC), The  
Lineman's and  
Cableman's  
Handbook, 12th  
Edition,  
provides in-  
depth  
information on  
overhead and  
underground  
distribution and



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transmission  
lines. The  
latest OSHA,  
ANSI, and ASTM  
standards are  
emphasized  
throughout. This  
authoritative  
resource  
presents basic  
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regulations,  
allowing  
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workers to avoid  
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diagnose and  
repair power  
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safety. A wealth  
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make it easy to  
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material, and  
self-test

questions and  
exercises help  
reinforce key  
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principles and  
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Substations \*

Circuits \*

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Wood-pole,  
aluminum,  
concrete,  
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\* Distribution  
automation \*  
Emergency system  
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Unloading,  
hauling,  
erecting,  
setting, and

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**guying poles \*  
Insulators,  
crossarms, and  
conductor  
supports \* Line  
conductors \*  
Distribution  
transformers \*  
Lightning and  
surge protection  
\* Fuses \*  
Switches,  
sectionalizers,  
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Voltage

regulators \*

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tower erection \*

Stringing,

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Units of  
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definitions,  
electrical  
formulas, and  
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distribution  
lines \* Rope,  
knots, splices,  
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compares the

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performance of  
the main  
systems, with  
many examples of  
applications.  
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a minimum of  
mathematics -  
has made this  
book equally  
popular as an  
outline for  
professionals

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and an  
introductory  
student text. \*  
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(1990) has sold  
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motors and

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provide little  
opportunity for  
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you'll need to  
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full spectrum of  
hardware, as  
well as typical  
application

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scenarios are fully explored, along with operating parameters, controls, inlet treatments, inspection, troubleshooting, and more. The second edition adds a new chapter on gas turbine noise

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control, as well as an expanded section on use of inlet cooling for power augmentation and NOx control. The author has provided many helpful tips that will enable diagnosis of problems in their early

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stages and analysis of failures to prevent their recurrence. Also treated are the effects of the external environment on gas turbine operation and life, as well as the impact of the gas turbine

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on its  
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