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*Power transfer  
for large  
systems depends  
on high system  
voltages. The  
basics of high  
voltage  
laboratory  
techniques and  
phenomena,*

*Page 1/116*

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*together with  
the principles  
governing the  
design of high  
voltage  
insulation, are  
covered in this  
book for  
students,  
utility  
engineers,  
designers and  
operators of  
high voltage*

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*equipment. In this new edition the text has been entirely revised to reflect current practice. Major changes include coverage of the latest instrumentation, the use of electronegative gases such as*

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*sulfur  
hexafluoride,  
modern  
diagnostic  
techniques, and  
high voltage  
testing  
procedures with  
statistical  
approaches. A  
classic text on  
high voltage  
engineering  
Entirely revised*

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*to bring you up-  
to-date with  
current practice  
Benefit from  
expanded  
sections on  
testing and  
diagnostic  
techniques  
Crompton's  
Battery  
Reference Book  
has become the  
standard*

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*reference source  
for a wide range  
of professionals  
and students  
involved in  
designing,  
manufacturing,  
and specifying  
products and  
systems that use  
batteries. This  
book is unique  
in providing  
extensive data*

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*on specific  
battery types,  
manufacturers  
and suppliers,  
as well as  
covering the  
theory - an  
aspect of the  
book which makes  
an updated  
edition  
important for  
every  
professional's*

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*library. The coverage of different types of battery is fully comprehensive, ranging from minute button cells to large installations weighing several hundred tonnes. Must-have information and*

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*data on all  
classes of  
battery in an  
accessible form  
Essential  
reference for  
design engineers  
in automotive  
and aerospace  
applications, te  
lecommunications  
equipment,  
household  
appliances, etc.*

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*Informs you of  
developments  
over the past  
five years*

*Foreword.*

*Preface.*

*Acknowledgments.*

*1. Introduction  
to the Problems  
of Analysis and  
Control of  
Electric Power  
Systems. 2.*

*Configuration*

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*and Working  
Point. 3.  
Frequency and  
Active Power  
Control. 4.  
Dynamic Behavior  
of the  
Synchronous  
Machine. 5.  
Dynamic Behavior  
of Network  
Elements and  
Loads. 6.  
Voltage and*

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*Reactive Power  
Control. 7. The  
Synchronous  
Machine*

*Connected to an  
Infinite Bus. 8.  
Electromechanica  
l Phenomena in a  
Multimachine  
System. Appendix  
1:*

*Transformation  
to Symmetrical  
Components.*

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*Appendix 2:  
Park's  
Transformation.  
Appendix 3:  
Elementary  
Outline of the  
Automatic  
Control Theory.  
References.  
Index. About the  
Author.  
High Voltage  
Engineering  
Fundamentals*

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*Handbook of  
Electrical  
Design Details  
Products and  
Services  
Catalogue  
Winding Wires  
Community Seed  
Banks  
Innovate  
Indonesia*

New  
technologies

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present  
governments  
with  
opportunities  
and challenges  
in a range of  
key policy  
areas such as  
employment, com  
petitiveness,  
equity, and  
sustainability.  
A consensus is

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that the national government can play an important role in stimulating innovation.

This report explores policy options to facilitate Indonesia's technological

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transformation  
and unlock its  
economic growth  
potential.

Management,

Assets,

Management

operations,

Planning

Der MHI e.V.

ist ein

Netzwerk

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ren aus dem deu  
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Raum, die  
sowohl grundlag  
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als auch  
anwendungsnah  
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Handhabung und  
Industrieroboti  
k erfolgreich  
forschend tätig

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sind. Die  
Gründung der  
Gesellschaft  
erfolgte im  
Frühjahr 2012.  
Der MHI e.V.  
hat derzeit 20  
Mitglieder, die  
über ihre  
Institute und  
Lehrstühle  
zurzeit ca.  
1.000

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Wissenschaftler  
repräsentieren.  
Die  
übergeordnete  
Zielsetzung des  
MHI e.V. ist  
die Förderung  
der  
Zusammenarbeit  
von deutschspra-  
chigen Wissensc-  
haftlerinnen  
und Wissenschaft

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tlern  
untereinander,  
sowie mit der  
Industrie im  
Bereich  
Montage,  
Handhabung und  
Industrieroboti  
k zur  
Beschleunigung  
der Forschung,  
Optimierung der  
Lehre und zur

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Verbesserung  
der  
internationalen  
Wettbewerbsfähi-  
gkeit der  
deutschen  
Industrie in  
diesem Bereich.  
Das Kolloquium  
fokussiert auf  
einen  
akademischen  
Austausch auf

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hohem Niveau,  
um die  
gewonnenen Fors  
chungsergebniss  
e zu verteilen,  
synergetische  
Effekte und  
Trends zu  
bestimmen, die  
Akteure  
persönlich zu  
verbinden und  
das

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Forschungsfeld  
sowie die MHI-  
Gemeinschaft zu  
stärken.

International  
Congress  
Calendar

An Overview of  
the Technology,  
the  
Marketplace,  
and Government  
Regulations

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Standards

Catalogue

Test methods

Code Practice

Equipment

Tagungsband des

3. Kongresses

Montage

Handhabung Indu

strieroboter

***Keep your***

***electrical***

***construction***

*Page 25/116*

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*projects running  
smoothly*  
**ELECTRICAL  
CONSTRUCTION  
DATABOOK is the  
all-in-one power  
tool you need to  
minimize  
construction risks  
and problems,  
avoid costly  
mistakes, work  
more efficiently,**

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***handle more  
projects without  
outside help,  
reduce waste, cut  
cost, and  
maximize profits.  
Applications  
expert Bob  
Hickey provides  
the exact data  
that lets you  
keep any  
commercial,***

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***industrial, or  
institutional  
electrical design  
and construction  
project on track  
and within  
budget. In this  
detail-by-detail,  
quick-reference  
sourcebook, Bob  
focuses on easy-  
to-understand  
electrical system***

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***concepts,  
calculations, and  
code  
requirements  
that are most  
frequently  
encountered in a  
typical electrical  
system  
installation. You  
get a wealth of  
practical advice  
backed by***

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***hundreds of  
tables, sample  
calculations,  
charts, diagrams,  
and illustrations  
that will enable  
you to quickly  
and easily: \* Plan  
and design  
projects \*  
Determine space  
requirements for  
equipment***

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***installations \****

***Properly size  
equipment and  
distribution  
components \****

***Ensure adequate  
short-circuit  
protection \****

***Provide proper  
over-current  
protection and  
coordination \****

***Comply with***

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***building codes  
and industry  
standards  
Power outages  
have  
considerable  
social and  
economic  
impacts, and  
effective  
protection  
schemes are  
crucial to***

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***avoiding them.  
While most  
textbooks focus  
on the  
transmission and  
distribution  
aspects of  
protective relays,  
Protective  
Relaying for  
Power Generation  
Systems is the  
first to focus on***

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***protection of  
motors and  
generators from  
a power  
generation  
perspective. It  
also includes  
workbook  
constructions  
that allow  
students to  
perform  
protection-***

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***related  
calculations in  
Mathcad® and  
Excel®. This text  
provides both a  
general overview  
and in-depth  
discussion of  
each topic,  
making it easy to  
tailor the  
material to  
students' needs.***

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***It also covers topics not found in other texts on the subject, including detailed time decrement generator fault calculations and minimum excitation limit. The author clearly explains the potential for***

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***damage and  
damaging  
mechanisms  
related to each  
protection  
function and  
includes  
thorough  
derivations of  
complex system  
interactions.  
Such derivations  
underlie the***

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***various rule-of-thumb setting criteria, provide insight into why the rules-of-thumb work and when they are not appropriate, and are useful for post-incident analysis. The book's flexible approach***

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***combines  
theoretical  
discussions with  
example settings  
that offer quick  
how-to  
information.  
Protective  
Relaying for  
Power Generation  
Systems  
integrates  
fundamental***

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***knowledge with practical tools to ensure students have a thorough understanding of protection schemes and issues that arise during or after abnormal operation. Technological advances and***

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***changes in government policy and regulation have altered the electric power industry in recent years and will continue to impact it for quite some time. Fully updated with the latest***

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***changes to regulation, structure, and technology, this new edition of Understanding Electric Power Systems offers a real-world view of the industry, explaining how it operates, how it is structured, and***

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***how electricity is regulated and priced. It includes extensive references for the reader and will be especially useful to lawyers, government officials, regulators, engineers, and students, as well***

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***as the general public. The book explains the physical functioning of electric power systems, the electric power business in today's environment, and the related institutions,***

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***including recent  
changes in the  
roles of the  
Federal Energy  
Regulatory  
Commission and  
the North  
American  
Reliability  
Company.  
Significant  
changes that are  
affecting the***

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***industry are covered in this new edition, including: The expanded role of the federal government in the planning and operation of the nation's electric utilities New energy laws and a large number of***

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***FERC regulations  
implementing  
these laws  
Concerns over  
global warming  
and potential  
impacts on the  
electric industry  
Pressures for  
expansion of the  
electric grid and  
the  
implementation***

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***of "smart-grid"  
technologies The  
growing  
importance of  
various energy-  
storage  
technologies and  
renewable energy  
sources New  
nuclear  
generation  
technologies The  
2009 economic***

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***stimulus package  
Teenage  
Deliveries and  
Risk of Adverse  
Outcomes  
The National  
Integrated Early  
Childhood  
Development  
Policy of Uganda  
Testing of Power  
Transformers  
Scientific and***

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***Technical  
Aerospace  
Reports  
Industrial  
systems,  
installations and  
equipment and  
industrial  
products  
Electric Power  
Systems  
Sorghum and***

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Millet: Chemistry,  
Technology and  
Nutritional  
Attributes, Second  
Edition, is a new,  
fully revised edition  
of this widely read  
book published by  
AACCC  
International. With  
an internationally  
recognized

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editorial team, this new edition covers, in detail, the history, breeding, production, grain chemistry, nutritional quality and handling of sorghum and millets. Chapters focus on

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biotechnology,  
grain structure and  
chemistry,  
nutritional  
properties,  
traditional and  
modern usage in  
foods and  
beverages, and  
industrial and non-  
food applications.  
The book will be of

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interest to academics researching all aspects of sorghum and millets, from breeding to usage. In addition, it is essential reading for those in the food industry who are tasked with the

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development of  
new products  
using the grains.  
Updated version of  
the go-to title in  
sorghum and  
millets with  
coverage of  
developments from  
the last two  
decades of  
research Brings

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together leading  
experts from  
across the field via  
a world leading  
editorial team  
Published in  
partnership with  
the AACCI -  
advancing the  
science and  
technology of  
cereals and grains

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Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a

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handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may

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not be aware of all  
of those  
documents and  
their applicability.

This book  
identifies those  
documents by  
category, allowing  
the ready and  
easy access to the  
relevant  
requirements.

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Because these documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended

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practices or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices and

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regulations, but also explain their use and updating cycles. This book, one-stop-information-center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes,

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standards,  
recommended  
practices and  
regulations in the  
United States  
involving electrical  
safety and design,  
providing a  
comprehensive  
reference for  
engineers and  
electrical safety

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professionals  
Documents are  
identified by  
category, enabling  
easy access to the  
relevant  
requirements Not  
version-specific;  
information is not  
reliant on the latest  
edition or release  
of the codes,

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standards,  
recommended  
practices or  
regulations

A COMPREHENSIVE SOURCE OF  
TECHNICAL  
DETAILS ON  
ELECTRICAL  
POWER FROM  
GENERATION TO  
PRACTICAL

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## APPLICATIONS

Reliable, low-cost electric power is a fundamental requirement for modern society, making possible such vital services as lighting, HVAC, transportation, communication, and data

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processing, in addition to driving motors of all sizes. A mainstay of industrial productivity and economic prosperity, it is also essential for safeguarding human life and health. This

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handbook is a valuable information resource on electric power for everyone from technical professionals to students and laypeople. This compact, user-friendly edition

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updates and expands on the earlier edition. Its core content of power generation, distribution, lighting, wiring, motors, and project planning has been supplemented by new topics: \* CAD

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for preparing  
electrical drawings  
and estimates \*

Basic switch and  
receptacle circuit  
wiring \* Structured  
wiring for  
multimedia \*

Swimming pool  
and low-voltage  
lighting \* Electrical  
surge protection

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An easy-to-read style makes complex topics understandable. It's a must-have reference for those with a need or desire to get up to speed on the entire subject of electric power or just familiarize

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themselves with the latest advances--regardless of their formal education or training. Reader-helpful features in this edition include: \* Up-front chapter summaries to save time in finding topics of

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interest. \*

References to  
related articles in  
the National  
Electrical Code. \*

A bibliography  
identifying  
additional sources  
for digging deeper.

\* Approximately  
300 illustrations  
Hot Matter from

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High-Power Lasers  
Power  
Transformer  
Condition  
Monitoring and  
Diagnosis  
Unlocking Growth  
Through  
Technological  
Transformation  
An Examination of  
Relevant Safety

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Considerations  
Hardware Hacker  
Component-based  
Software  
Engineering  
Microbial  
Forensics, Third  
Edition, serves as a  
complete  
reference on the  
discipline,  
describing the

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advances,  
challenges and  
opportunities that  
are integral in  
applying science  
to help solve  
future biocrimes.  
New chapters  
include: Microbial  
Source Tracking,  
Clinical  
Recognition,

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Bioinformatics,  
and Quality  
Assurance. This  
book is intended  
for a wide  
audience, but will  
be indispensable  
to forensic  
scientists and  
researchers  
interested in  
contributing to

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the growing field  
of microbial  
forensics.

Biologists and  
microbiologists,  
the legal and  
judicial system,  
and the  
international  
community  
involved with  
Biological

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volume  
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Presents new and  
expanded content  
that includes a  
statistical analysis  
of forensic data,  
legal admissibility  
and standards of  
evidence

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Discusses actual cases of forensic bioterrorism  
Includes contributions from editors and authors who are leading experts in the field, with primary experience in the application of this

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fast-growing  
discipline  
Component-Based  
Software  
Engineering  
(CBSE) is the way  
to produce  
software fast. This  
book presents the  
concepts in CBSE.  
While detailing  
both the

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advantages and the limitations of CBSE, it covers every aspect of component engineering, from software engineering practices to the design of software component infrastructure,

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technologies, and system.

Every entry follows a standard pattern: after the address and telephone number of the institution there is a brief description of its history and financial support,

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followed by the names of the senior staff, total number of staff, the institution's structure and services, its main research programmes and a list of its publications. For this new edition a

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subject index has been added, allowing the reader to identify centres of research activity on individual construction topics throughout the world. The world-wide investment in

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construction  
industry research  
is enormous. This  
unique directory is  
a guidebook to  
that investment  
which will enable  
its readers to  
isolate sources of  
advice on practical  
problems,  
information on

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national standards  
and requirements  
and potential  
research  
collaborators.  
structuring  
principles and  
reference  
designations.  
classification of  
objects and codes  
for classes. Part 2

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The BKSTS Journal  
Sorghum and  
Millets  
Electrical  
Construction  
Databook  
Microbial  
Forensics  
BSI Catalogue  
Details the full  
spectrum of the  
equipment and

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processes used in the production of electricity, from the basics of energy conversion, to prime movers, generators, and boilers. The Second Edition expands coverage of the gasification of coal, gas turbines, and the effective use

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of generation in  
place of efficiency  
measures.

This book offers an  
introduction to the  
booming field of  
high-power laser-  
matter interaction. It  
covers the heating of  
matter to super-high  
temperatures and  
pressures, novel

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schemes of fast  
particle acceleration,  
matter far from  
thermal equilibrium,  
stimulated radiation  
scattering,  
relativistic optics,  
strong field QED, as  
well as relevant  
applications, such as  
extreme states of  
matter, controlled

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fusion, and novel radiation sources. All models and methods considered are introduced as they arise and illustrated by relevant examples. Each chapter contains a selection of problems to test the reader's

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understanding, to apply the models under discussion to relevant situations and to discover their limits of validity.

The carefully chosen illustrations greatly facilitate the visualization of physical processes as well as presenting

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detailed numerical results. A list of useful formulas and tables are provided as a guide to quantifying results from experiments and numerical simulations. Each chapter ends with a description of the state of the art and

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the current research  
frontiers.

This must-read book  
on power  
transformer  
monitoring will  
incorporate current  
power transformer  
condition monitoring  
techniques from  
principles to  
practice. Each

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chapter will cover the fundamentals and theory of the topic, convey techniques to measure relevant parameters, and assess or interpret the results. The book will include factory acceptance tests, receiving end pre-

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commissioning tests, and commissioning tests. It will also include the limitations and challenges, and approaches to overcome these limitations.

A Brief Review of  
Power Generation  
Thermodynamics

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Asset Management.  
Overview, Principles  
and Terminology  
The Electrical  
Review  
Fundamentals and  
Phenomena  
F & M.  
Routine Tests, Type  
Tests and Special  
Tests  
Primarily this book

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describes the thermodynamics of gas turbine cycles. The search for high gas turbine efficiency has produced many variations on the simple "open circuit" plant, involving the use of heat exchangers, reheating and

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intercooling, water and steam injection, cogeneration and combined cycle plants. These are described fully in the text. A review of recent proposals for a number of novel gas turbine cycles is also included. In the past few years work has been directed

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towards developing gas turbines which produce less carbon dioxide, or plants from which the CO<sub>2</sub> can be disposed of; the implications of a carbon tax on electricity pricing are considered. In presenting this wide survey of gas turbine cycles for

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power generation  
the author calls on  
both his academic  
experience (at  
Cambridge and  
Liverpool  
Universities, the  
Gas Turbine  
Laboratory at MIT  
and Penn State  
University) and his  
industrial work  
(primarily with Rolls

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Royce, plc.) The book will be essential reading for final year and masters students in mechanical engineering, and for practising engineers.

Community seed banks first appeared towards the end of the 1980s,

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established with the support of international and national non-governmental organizations. This book is the first to provide a global review of their development and includes a wide range of case studies. Countries

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that pioneered various types of community seed banks include Bangladesh, Brazil, Ethiopia, India, Nepal, Nicaragua, the Philippines and Zimbabwe. In the North, a particular type of community seed bank emerged known as a seed-

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savers network.

Such networks were first established in Australia, Canada, the UK and the USA before spreading to other countries.

Over time, the number and diversity of seed banks has grown. In Nepal, for example, there are now more

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than 100 self-described community seed banks whose functions range from pure conservation to commercial seed production. In Brazil, community seed banks operate in various regions of the country.

Surprisingly, despite

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25 years of history and the rapid growth in number, organizational diversity and geographical coverage of community seed banks, recognition of their roles and contributions has remained scanty. The book reviews

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their history, evolution, experiences, successes and failures (and reasons why), challenges and prospects. It fills a significant gap in the literature on agricultural biodiversity and conservation, and

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their contribution to food sovereignty and security.

User-friendly and up-to-date, these

National Electrical Code? tabs are a great way to

organize the 2005 NEC?. These self-adhesive tabs can reduce the time spent searching to

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find key information.

Tabs are durable and allow for positioning adjustments after being placed on the code paper.

Affordable and time-saving, these are a must-have for NEC? users.

Guide to Electric  
Power Generation,

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Second Edition  
Lord Bacons  
"Philosophy"  
Examined  
Feinwerktechnik &  
Messtechnik  
Advanced Gas  
Turbine Cycles  
Battery Reference  
Book  
BSI Standards  
Catalogue  
Designed to increase

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understanding on a practical and theoretical basis, this invaluable resource provides engineers, plant operators, electricians and technicians with a thorough grounding in the principles and practicalities behind power system protection. Coverage

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of the fundamental knowledge needed to specify, use and maintain power protection systems is included, helping readers to increase plant efficiency, performance and safety. Consideration is also given to the practical techniques and engineering

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challenges encountered on a day-to-day basis, making this an essential resource for all.

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