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*Advanced Construction
Technology PHI Learning
Pvt. Ltd.*
Microgrid technology is an
emerging area, and it has
numerous advantages over

the conventional power grid. A microgrid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity concerning the grid. Microgrid technology enables the connection and disconnection of the system from the grid. That is, the microgrid can operate both in grid-connected and islanded modes of operation. Microgrid technologies are an important part of the evolving landscape of energy and power systems. Many aspects of microgrids are discussed in this volume, including, in the early chapters of the book, the various types of energy storage systems, power and energy management for microgrids, power electronics interface for AC & DC microgrids, battery management systems for microgrid applications, power system analysis for microgrids, and many others. The middle section of the book presents the power quality problems in microgrid systems and its mitigations, gives an overview of various power quality problems and its solutions, describes the PSO algorithm based UPQC controller for power quality enhancement, describes the power quality enhancement and grid support through a solar energy conversion system, presents the fuzzy logic-based power quality assessments, and covers various power quality indices. The final chapters in the book present the recent advancements in the microgrids, applications of Internet of Things (IoT) for microgrids, the application of

artificial intelligent techniques, modeling of green energy smart meter for microgrids, communication networks for microgrids, and other aspects of microgrid technologies. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in the area of microgrids, this is a must-have for any library.

Power System Protection and Switchgear CRC Press
Principles of Economics and Management for Manufacturing Engineering

combines key engineering economics principles and applications in one easy to use reference. Engineers, including design, mechanical, and manufacturing engineers are frequently involved in economics-related decisions, whether directly when selecting materials or indirectly when managers make order quantity decisions based on their work. Having a knowledge of the management and economic activities that touch on engineering work is a core part of most

foundational engineering qualifications and becomes even more important in industry. Covering a wide range of management and economic topics from the point-of-view of an engineer in industry, this reference provides everything needed to understand the commercial context of engineering work. Covers the full range of basic economic concepts as well as engineering economics topics. Includes end of chapter questions and chapter summaries that make this an ideal self-study resource

Provides step-by-step instructions for cost accounting for engineers

Recent Advancements in Bioremediation of Metal Contaminants Pearson

AI, Edge, and IoT Smart Agriculture integrates applications of IoT, edge computing, and data analytics for sustainable agricultural development and introduces Edge of Thing-based data analytics and IoT for predictability of crop, soil, and plant disease occurrence for improved sustainability and increased profitability. The book also addresses precision irrigation, precision horticulture, greenhouse IoT, livestock monitoring, IoT

ecosystem for agriculture, mobile robot for precision agriculture, energy monitoring, storage management, and smart farming. The book provides an overarching focus on sustainable environment and sustainable economic development through smart and e-agriculture. Providing a medium for the exchange of expertise and inspiration, contributions from both smart agriculture and data mining researchers around the world provide foundational insights. The book provides practical application opportunities for the resolution of real-world problems, including contributions from the data mining, data analytics, Edge of Things, and cloud research communities

working in the farming production sector. The book offers broad coverage of the concepts, themes, and instruments of this important and evolving area of IOT-based agriculture, Edge of Things and cloud-based farming, Greenhouse IOT, mobile agriculture, sustainable agriculture, and big data analytics in agriculture toward smart farming. Integrates sustainable agriculture, Greenhouse IOT, precision agriculture, crops monitoring, crops controlling to prediction, livestock monitoring, and farm management Presents data mining techniques for precision agriculture, including weather prediction, plant disease prediction, and decision support

for crop and soil selection Promotes the importance and uses in managing the agro ecosystem for food security Emphasizes low energy usage options for low cost and environmental sustainability Research Advances in the Integration of Big Data and Smart Computing PHI Learning Pvt. Ltd. Signal-space methods provide a unifying framework for modulation, detection and coding concpets. Three chapters on coding provide valuable design information for communications systems. Engineering Economics and Costing Oxford University Press

Microgrid technology is an emerging area, and it has numerous advantages over the conventional power grid. A microgrid is defined as Distributed Energy Resources (DER) and interconnected loads with clearly defined electrical boundaries that act as a single controllable entity concerning the grid. Microgrid technology enables the connection and disconnection of the

system from the grid. That is, the microgrid can operate both in grid-connected and islanded modes of operation. Microgrid technologies are an important part of the evolving landscape of energy and power systems. Many aspects of microgrids are discussed in this volume, including, in the early chapters of the book, the various types of energy storage systems,

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area as well as a daily reference for engineers and scientists working in the area of microgrids, this is a must-have for any library.

Advances in Power Systems and Energy Management Springer
Covering detailed discussion of fundamental concepts of economics, the textbook commences with comprehensive

explanation of theory of consumer behavior, utility maximization and optimal choice, profit function, cost minimization and cost function. The textbook covers methods including present worth method, future worth method, annual worth method, internal rate of return method, explicit re-investment rate of

return method and payout method useful for studying economic studies. A chapter on value engineering discusses important topics such as function analysis systems techniques, the value index, value measurement techniques, innovative phase and constraints analysis in depth. It facilitates the understanding of

the concepts throughcs/engineering
illustrations and
solved problems.
This text is the
ideal resource for
Indian
undergraduate
engineering
students in the
fields of
mechanical
engineering,
computer science
and engineering and
electronics
engineering for a
course on
engineering economi

economy.

North American
Indians: A Very Short
Introduction New Age
International
This book constitutes
the refereed
proceedings of the
12th International
Conference on
Software Process
Improvement and
Capability
Determination, SPICE
2012, held in Palma
de Mallorca, Spain,
in May 2012. The 21
revised full papers

presented and 14
short papers were
carefully reviewed
and selected from
numerous submissions.
The papers are
organized in topical
sections on
organizational
process improvement;
SPI in small and very
small enterprises;
process models; SPI
in automotive
software and
security; SPI in
medical and safety
critical systems;
short papers.

Managerial Economics
(GBTU) Alpha Science
Int'l Ltd.

The book focuses to
foster new and
original research
ideas and results in
three broad areas:
computing, analytics,
and networking with
its prospective
applications in the
various
interdisciplinary
domains of
engineering. This is
an exciting and
emerging
interdisciplinary

area in which a wide
range of theory and
methodologies are
being investigated
and developed to
tackle complex and
challenging real
world problems. It
also provides
insights into the
International
Conference on
Computing Analytics
and Networking (ICCAN
2017) which is a
premier international
open forum for
scientists,
researchers and

technocrats in
academia as well as
in industries from
different parts of
the world to present,
interact, and
exchange the state of
art of concepts,
prototypes,
innovative research
ideas in several
diversified fields.
The book includes
invited keynote
papers and paper
presentations from
both academia and
industry to initiate
and ignite our young

minds in the meadow of momentous research and thereby enrich their existing knowledge. The book aims at postgraduate students and researchers working in the discipline of Computer Science & Engineering. It will be also useful for the researchers working in the domain of electronics as it contains some hardware technologies and forthcoming communication technologies. **Microgrid Technologies** Engineering Economics and Costing The essential M&A primer, updated with the latest research and statistics Mergers, Acquisitions, and Corporate Restructurings provides a comprehensive look at the field's growth and development, and places M&As in realistic context amidst changing trends, legislation, and global perspectives. All-inclusive coverage merges expert discussion with extensive graphs, research, and case studies to show how M&As can be used successfully, how each form works, and how they are governed by the laws of major countries. Strategies and motives are carefully analyzed alongside legalities

each step of the way, and specific techniques are dissected to provide deep insight into real-world operations. This new seventh edition has been revised to improve clarity and approachability, and features the latest research and data to provide the most accurate assessment of the current M&A landscape. Ancillary materials include PowerPoint slides, a sample syllabus, and a test bank to facilitate training and streamline comprehension. As the global economy slows, merger and acquisition activity is expected to increase. This book provides an M&A primer for business executives and financial managers seeking a deeper understanding of how corporate restructuring can work for their companies. Understand the many forms of M&As, and the laws that govern them. Learn the offensive and defensive techniques used during hostile acquisitions. Delve into the strategies and motives that inspire M&As. Access the latest data, research, and case studies on private equity, ethics, corporate governance, and more. From large megadeals to various

forms of downsizing, a full range of restructuring practices are currently being used to revitalize and supercharge companies around the world. Mergers, Acquisitions, and Corporate Restructurings is an essential resource for executives needing to quickly get up to date to plan their own company's next moves. Engineering Economics

Springer
The book presents high quality papers presented at the International Conference on Computational Intelligence in Data Mining (ICCIDM 2016) organized by School of Computer Engineering, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India during December 10 - 11, 2016. The book disseminates the

knowledge about innovative, active research directions in the field of data mining, machine and computational intelligence, along with current issues and applications of related topics. The volume aims to explicate and address the difficulties and challenges that of seamless integration of the two core disciplines of computer science. *Power System Analysis:*

Operation And Control
3Rd Ed. Academic Press
Pollution and ways to
combat it have become
topics of great
concern for
researchers. One of
the most important
dimensions of this
global crisis is
wastewater, which can
often become
contaminated with
heavy metals such as
lead, mercury, and
arsenic, which are
released from
different industrial
wastes, mines, and
agricultural runoff.
Bioremediation of such

heavy metals has been
extensively studied
using different groups
of bacteria, fungi, and
algae, and has been
considered as a safer,
eco-friendly, and cost-
effective option for
mitigation of
contaminated wasteland.
The toxicity of water
impacts all of society,
and so it is of great
importance that we
understand the better,
cleaner, and more
efficient ways of
treating water. Recent
Advancements in
Bioremediation of Metal
Contaminants is a

pivotal reference
source that explores
bioremediation of
pollutants from
industrial wastes and
examines the role of
diverse forms of
microbes in
bioremediation of
wastewater. Covering a
broad range of topics
including microorganism
tolerance,
phytoremediation, and
fungi, the role of
different extremophiles
and biofilms in
bioremediation are also
discussed. This book is
ideally designed for
environmentalists,

engineers,
policymakers,
academicians,
researchers, and
students in the fields
of microbiology,
toxicology,
environmental
chemistry, and soil and
water science.

**Progress in
Computing, Analytics
and Networking**

Pearson Education
General
considerations;
Application of
project appraisal
techniques; Budgetary
problems and

financial planning.
Productivity
Management New Age
International
The volume,
complexity, and
irregularity of
computational data in
modern algorithms and
simulations
necessitates an
unorthodox approach to
computing.
Understanding the
facets and
possibilities of soft
computing algorithms
is necessary for the
accurate and timely
processing of complex
data. Research

Advances in the
Integration of Big Data
and Smart Computing
builds on the available
literature in the realm
of Big Data while
providing further
research opportunities
in this dynamic field.
This publication
provides the resources
necessary for
technology developers,
scientists, and
policymakers to adopt
and implement new
paradigms in
computational methods
across the globe. The
chapters in this
publication advance the

body of knowledge on soft computing techniques through topics such as transmission control protocol for mobile ad hoc networks, feature extraction, comparative analysis of filtering techniques, big data in economic policy, and advanced dimensionality reduction methods. *Engineering Mechanics* John Wiley & Sons The fourth edition of this text has streamlined the material into 15 chapters. The

sequence flows through fundamentals required for economic analysis, structural procedures for performing those analyses, specific considerations for the public sector, depreciation and income tax considerations, inflation considerations, advanced concepts, including risk and decision. An emphasis on a clear writing style with numerous

examples and review exercises offsets traditional ideas that the subject matter can be dull. **Ground Improvement Techniques (PB)** IEEE Defining productivity in its broader and holistic perspective, this text attempts to clarify many difficulties in conventional approaches. It proposes a model which is applicable for productivity measurement in manufacturing and the

service sector and presents case studies.

**Mergers,
Acquisitions, and
Corporate
Restructurings** CRC
Press

The need for exploration, conservation, and sustainable utilization of bioresources is undeniable for the survival and growth of mankind. This new book throws light on new and recent research on and

development of effective strategies for sustainable utilization of bioresources using modern tools and techniques to help meet this challenge. This volume addresses the utilization of bioresources in therapeutics, in biofuel, in agriculture, and in environmental protection. Beginning with the diverse potential applications of

bioresources in food, medicine, and cosmetics, the volume goes on to address the various different underutilized bioresources and their sustainable uses. It discusses important advances in biofuel and patents that highlight recent developments that address the energy crises and the continuously fluctuating cost of petroleum. It explores new

renewable energy sources from bioresources and their sustainable utilization in the bioenergy and biofuel industry. Several chapters focus on the sustainable utilization of bioresources in the agricultural sector. The volume considers that developing countries have huge agricultural resources that could be employed for production of value-

added byproducts for the sustainable development of a bio-based economy. The book discusses efficient use of underexploited natural bioresources, new chemical approaches for the generation of novel biochemicals, and the applications of genetics approaches for bioresource conservation and production of value-added products. Further, strategies

for the production of biopesticides utilizing bioresources are also discussed.

Managerial Economics in a Global Economy

Thomas Telford Publishing

When Europeans first arrived in North America, between five and eight million indigenous people were already living there. But how did

they come to be here? What were their agricultural, spiritual, and hunting practices? How did their societies evolve and what challenges do they face today? Eminent historians Theda Perdue and Michael Green begin by describing how nomadic bands of hunter-gatherers followed the bison and woolly mammoth over the Bering

land mass between Asia and what is now Alaska between 25,000 and 15,000 years ago, settling throughout North America. They describe hunting practices among different tribes, how some made the gradual transition to more settled, agricultural ways of life, the role of kinship and cooperation in Native societies,

their varied burial rites and spiritual practices, and many other features of Native American life. Throughout the book, Perdue and Green stress the great diversity of indigenous peoples in America, who spoke more than 400 different languages before the arrival of Europeans and whose ways of life varied according to the

environments they settled in and adapted to so successfully. Most importantly, the authors stress how Native Americans have struggled to maintain their sovereignty--first with European powers and then with the United States--in order to retain their lands, govern themselves, support their people, and pursue

practices that have made their lives meaningful. Going beyond the stereotypes that so often distort our views of Native Americans, this Very Short Introduction offers a historically accurate, deeply engaging, and often inspiring account of the wide array of Native peoples in America. About the Series:

Combining authority with wit, accessibility, and style, Very Short Introductions offer an introduction to some of life's most interesting topics. Written by experts for the newcomer, they demonstrate the finest contemporary thinking about the central problems and issues in hundreds of key topics, from

philosophy to Freud, quantum theory to Islam.

An Introduction to Engineering Economics
Cambridge University Press

Based on the authors' combined experience of seventy years working on projects around the globe, *Construction Equipment Management for Engineers, Estimators, and Owners* contains hands-on, how-to information that you can put to immediate use. Taking an approach that

combines analytical and practical results, this is a valuable reference for a wide r

Bioresource Utilization and Management John Wiley & Sons

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular requirements of various institutions but also should

provided a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum. *Design of Gravity Dams* Vikas Publishing House Focusing on how a machine "feels" and behaves while operating, *Machine Elements: Life and Design* seeks to impart both intellectual and emotional comprehension

regarding the "life" of of stressed parts. connections under
a machine. It presents Topics include relative bending, new
a detailed description movements in considerations about
of how machines interference fit the role of the
elements function, connections and bolted interference fit in key
seeking to form a joints, visual joints, a detailed
sympathetic attitude demonstrations and examination of bolts
toward the machine and clarifications of the loaded by eccentrically
to ensure its wellbeing phenomenon of stress applied tension forces,
through more careful concentration, and resistance of
and proper design. The increasing the load cylindrical roller
book is divided into capacity of parts using bearings to axial
three sections for prior elasto-plastic displacement under
accessibility and ease deformation and surface load, and a new
of comprehension. The plastic deformation. approach to the choice
first section is The second part of fits for rolling
devoted to microscopic examines machine contact bearings. The
deformations and elements and units. third section addresses
displacements both in Topics include load strength calculations
permanent connections capacity calculations and life prediction of
and within the bodies of interference fit machine parts. It

includes information on the phenomena of static strength and fatigue; correlation between calculated and real strength and safety factors; and error migration.