

Online Library Power Plant  
Engineering Vijayaraghavan

***Power Plant  
Engineering  
Vijayaraghavan***

*This student-friendly text on the  
current economic issues particular to*

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*engineering covers the topics needed to analyze engineering alternatives. Students use both hand-worked and spreadsheet solutions of examples, problems and case studies. In this edition the options have been increased with an expanded spreadsheet analysis component,*

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*twice the number of case studies, and virtually all new end-of-chapter problems. The chapters on factor derivation and usage, cost estimation, replacement studies, and after-tax evaluation have been heavily revised. New material is included on public sector projects and*

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*cost estimation. A reordering of chapters puts the fundamental topics up front in the text. Many chapters include a special set of problems that prepare the students for the Fundamentals of Engineering (FE) exam. This text provides students and practicing professionals with a solid*

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*preparation in the financial understanding of engineering problems and projects, as well as the techniques needed for evaluating and making sound economic decisions. Distinguishing characteristics include learning objectives for each chapter, an easy-to-read writing style, many*

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*solved examples, integrated spreadsheets, and case studies throughout the text. Graphical cross-referencing between topics and quick-solve spreadsheet solutions are indicated in the margin throughout the text. While the chapters are progressive, over three-quarters can*

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*stand alone, allowing instructors flexibility for meeting course needs. A complete online learning center (OLC) offers supplemental practice problems, spreadsheet exercises, and review questions for the the Fundamentals of Engineering (FE) exam.*

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*Power Plant Engineering New Age  
International*

*The Technology Of Cad/Cam/Cim  
Deals With The Creation Of  
Information At Different Stages From  
Design To Marketing And Integration  
Of Information And Its Effective  
Communication Among The Various*



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*Activities Like Design, Product Data Management, Process Planning, Production Planning And Control, Manufacturing, Inspection, Materials Handling Etc., Which Are Individually Carried Out Through Computer Software. Seamless Transfer Of Information From One Application To*

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*Another Is What Is Aimed At. This Book Gives A Detailed Account Of The Various Technologies Which Form Computer Based Automation Of Manufacturing Activities. The Issues Pertaining To Geometric Model Creation, Standardisation Of graphics Data, Communication, Manufacturing*

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*Information Creation And  
Manufacturing Control Have Been  
Adequately Dealt With. Principles Of  
Concurrent Engineering Have Been  
Explained And Latest Software In The  
Various Application Areas Have Been  
Introduced. The Book Is Written With  
Two Objectives To Serve As A*

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*Textbook For Students Studying  
Cad/Cam/Cim And As A Reference  
Book For Professional Engineers.  
Engineering Metrology and  
Measurements is a textbook designed  
for students of mechanical,  
production and allied disciplines to  
facilitate learning of various shop-*

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*floor measurement techniques and  
also understand the basics of  
mechanical measurements.*

*Textbook on Professional Ethics and  
Human Values*

*Power Plant Engineering*

*Thermal Engineering in Power  
Systems*

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*Maintenance Engineering Handbook  
Practical Grounding, Bonding,  
Shielding and Surge Protection  
This major reference work  
brings together for the  
first time key articles on  
the economics of renewable  
energy. From a modest role*

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*as a backstop technology in the 1970s to a central role in low carbon transitions today, this collection reveals the emergence and growing importance of this sub-field of economics. Topics covered in this*

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*timely volume include the costs of renewable power (taking account of issues related to technological development, intermittency and interconnection), policies that promote renewable energy*



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*development, its public and private demand, and its impact on the environment and the economy. This indispensable collection is complemented by a comprehensive introduction that will serve as an*

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*essential source of  
reference for students and  
researchers.*

*The 18th CIRP International  
Conference on Life Cycle  
Engineering (LCE) 2011  
continues a long tradition  
of scientific meetings*

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*focusing on the exchange of  
industrial and academic  
knowledge and experiences in  
life cycle assessment,  
product development,  
sustainable manufacturing  
and end-of-life-management.  
The theme "Glocalized*

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*Solutions for Sustainability  
in Manufacturing” addresses  
the need for engineers to  
develop solutions which have  
the potential to address  
global challenges by  
providing products, services  
and processes taking into*

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*account local capabilities  
and constraints to achieve  
an economically, socially  
and environmentally  
sustainable society in a  
global perspective.  
Glocalized Solutions for  
Sustainability in*

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*Manufacturing do not only involve products or services that are changed for a local market by simple substitution or the omitting of functions. Products and services need to be addressed that ensure a high*

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*standard of living  
everywhere. Resources  
required for manufacturing  
and use of such products are  
limited and not evenly  
distributed in the world.  
Locally available resources,  
local capabilities as well*

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*as local constraints have to be drivers for product- and process innovations with respect to the entire life cycle. The 18th CIRP International Conference on Life Cycle Engineering (LCE) 2011 serves as a platform*



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*for the discussion of the  
resulting challenges and the  
collaborative development of  
new scientific ideas.*

*Despite all the efforts  
being put into expanding  
renewable energy sources,  
large-scale power stations*

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*will be essential as part of a reliable energy supply strategy for a longer period. Given that they are low on CO2 emissions, many countries are moving into or expanding nuclear energy to cover their baseload supply.*

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*Building structures required for nuclear plants whose protective function means they are classified as safety-related, have to meet particular construction requirements more stringent than those involved in*

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*conventional construction.  
This book gives a  
comprehensive overview from  
approval aspects given by  
nuclear and construction  
law, with special attention  
to the interface between  
plant and construction*

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*engineering, to a building  
structure classification.  
All life cycle phases are  
considered, with the primary  
focus on execution.  
Accidental actions on  
structures, the safety  
concept and design and*

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*fastening systems are exposed to a particular treatment. Selected chapters from the German concrete yearbook are now being published in the new English "Beton-Kalender Series" for the benefit of an*

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*international audience.  
Since it was founded in  
1906, the Ernst & Sohn  
"Beton-Kalender" has been  
supporting developments in  
reinforced and prestressed  
concrete. The aim was to  
publish a yearbook to*

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*reflect progress in "ferro-concrete" structures until - as the book's first editor, Fritz von Emperger (1862-1942), expressed it - the "tempestuous development" in this form of construction came to an end.*



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*However, the "Beton-Kalender" quickly became the chosen work of reference for civil and structural engineers, and apart from the years 1945-1950 has been published annually ever since.*

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*The astounding technological developments of our age depend on a safe, reliable, and economical supply of electric power. It stands central to continued innovations and particularly to the future of developing*

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*countries. Therefore, the importance of electric power engineering cannot be overstated, nor can the importance of this handbook to the power engineer. Until now, however, power engineers have had no*

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*comprehensive reference to help answer their questions quickly, concisely, and authoritatively-A one-stop reference written by electric power engineers specifically for electric power engineers.*

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*Engineering Thermodynamics*  
*Glocalized Solutions for*  
*Sustainability in*  
*Manufacturing*  
*Introduction to Nuclear*  
*Engineering*  
*Plant Engineering*  
*Renewable Energy Resources*

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This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as

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heating and cooling, passive solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy

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issues. A solutions manual is available to qualified instructors.

Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking



## Online Library Power Plant Engineering Vijayaraghavan

current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed.

# Online Library Power Plant Engineering Vijayaraghavan

Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates

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Corporation Repair and Maintenance  
Cost Estimation Ventilation Fans and  
Exhaust Systems 10 New Chapters on  
Maintenance of Mechanical Equipment  
Inside: • Organization and  
Management of the Maintenance  
Function • Maintenance Practices •  
Engineering and Analysis Tools •

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Maintenance of Facilities and  
Equipment • Maintenance of  
Mechanical Equipment • Maintenance  
of Electrical Equipment •  
Instrumentation and Reliability Tools •  
Lubrication • Maintenance Welding •  
Chemical Corrosion Control and  
Cleaning

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A comprehensive engineering guide concerned with understanding, modeling, analyzing, and mitigating power system stability and control problems--intended to meet the needs of practicing engineers associated with the electric utility industry as well as those of graduate students and

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researchers. The volume is divided into three parts: general background (2 chapters); equipment characteristics and modeling (9 chapters); and system stability--physical aspects, analysis, and improvement (6 chapters). Sponsored by the Electric Power Research Institute. Annotation

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Portland, OR

Undernourishment in some areas and abundance in others, accelerated climate changes, food distribution and security challenges, fluctuating economic and political stability and oversaturation in information - this is

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the world we are living in today. It seems that there is no time for the basic science plant research; instead of years of dedicated investigation, scientists are forced to wrap up their know-how in a project-oriented deliverables as fast as possible. The main strength of this book is the new



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knowledge about plant engineering that could be transferred into the applied science and, later on, to the industry. However, we should not forget that all great discoveries begin with the fundamental research, the wealth of good ideas and the dedicated scientific work.

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The Electric Power Engineering  
Handbook

(in S.I. Units)

Handbook of Industrial Drying

Fundamentals of Project Management

The Economics of Renewable Energy

*Still the Most Complete, Up-To-*

## Online Library Power Plant Engineering Vijayaraghavan

*Date, and Reliable Reference in  
the Field Drying is a highly  
energy-intensive operation and  
is encountered in nearly all  
industrial sectors. With rising  
energy costs and consumer  
demands for higher quality*

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*dried products, it is  
increasingly important to be  
aware of the latest  
developments in industrial  
drying technolog*

*Market\_Desc: This textbook is  
written for undergraduate*

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*students embarking on  
introductory course in  
Mechatronics and is also a  
reference book for engineers,  
and other practicing  
professionals, who are keen on  
understanding the principles of*

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*Mechatronic systems and engineering. Special Features: · Text presented in an integrated and lucid style.· Design of discrete control systems using fluid power circuits and PLCs explained.· User-friendly book*

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*with simple explanations and illustrations.· Many worked out examples and case studies.· Numerous illustrations, review questions, problems and exercises given.· Appendices, solved question and answers*

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*included in companion CD.  
Instructor Manual CD with  
Powerpoint presentations and  
questionnaire to be made  
available in December 2008.  
About The Book: This book  
integrates the principles of*



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*electrical and electronic  
engineering with Mechatronic  
system application in a simple  
manner, and is designed for  
both mechanical/industrial  
engineers. This book enables  
one to design and select analog*

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*and digital circuits,  
microprocessor-based  
components, mechanical  
devices, sensors and actuators,  
and control devices to design  
modern mechatronic  
systems.*

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*Integrated Mechanical  
Electronic System, consists of  
16 chapters and each chapter  
begins with learning objectives  
and a brief introduction. Topics  
are then divided into labeled  
sections with explanations,*

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*examples, along with appropriate practical applications. A variety of solved problems with step by step solutions are included. Each chapter ends with key terms, summary of the chapter,*

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*objective type questions and  
exercises.*

*The text is designed for junior  
and senior level Nuclear  
Engineering students. The third  
edition of this highly respected  
text offers the most current and*

## Online Library Power Plant Engineering Vijayaraghavan

*complete introduction to  
nuclear engineering available.  
Introduction to Nuclear  
Engineering has been  
thoroughly updated with new  
information on French, Russian,  
and Japanese nuclear reactors.*

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*All units have been revised to reflect current standards. In addition to the numerous end-of-chapter problems, computer exercises have been added. This Text-Cum-Reference Book Has Been Written To Meet The*

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*Manifold Requirement And  
Achievement Of The Students  
And Researchers. The Objective  
Of This Book Is To Discuss,  
Analyses And Design The  
Various Power Plant Systems  
Serving The Society At Present*



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*And Will Serve In Coming  
Decades India In Particular And  
The World In General. The  
Issues Related To Energy With  
Stress And Environment Up To  
Some Extent And Finally Find  
Ways To Implement The*

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*Outcome.Salient Features#  
Utilization Of Non-Conventional  
Energy Resources# Includes  
Green House Effect# Gives  
Latest Information S In Power  
Plant Engineering# Include  
Large Number Of Problems Of*

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*Both Indian And Foreign  
Universities# Rich Contents,  
Lucid Manner*

*Techno-Societal 2020*

*MECHATRONICS:*

*INTEGRATED MECHANICAL*

*ELECTRONIC SYSTEMS (With*

*Page 67/166*

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*CD )*

*Principles of Solar Engineering,  
Second Edition*

*Practical Electrical Equipment  
and Installations in Hazardous  
Areas*

*This book provides the reader with an*

*Page 68/166*

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*understanding of the hazards involved  
in using electrical equipment in  
Potentially Explosive Atmospheres. It  
is based on the newly adopted  
international IEC79 Series of  
Standards that are now harmonizing  
and replacing older national  
Standards. Explosion-proof*

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*installations can be expensive to design, install and operate. The strategies and techniques described in this book can significantly reduce costs whilst maintaining plant safety. The book explains the associated terminology and its correct use - from Area Classification through to the*

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*selection of explosion-protected electrical apparatus, describing how protection is achieved and maintained in line with these international requirements. The IEC standards require that engineering staff and their management are trained effectively and safely in Hazardous Areas, and*

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*this book is designed to help fulfill that need. A basic understanding of instrumentation and electrical theory would be of benefit to the reader, but no previous knowledge of hazardous area installation is required. \* An engineer's guide to the hazards and best practice for using electrical*



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*equipment in Potentially Explosive Atmospheres. \* Fully in line with the newly adopted international standards, the IEC79 series. \* Clear explanations of terminology and background information make this the most accessible book on this subject.*

*Drug overdose, driven largely by*

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*overdose related to the use of opioids, is now the leading cause of unintentional injury death in the United States. The ongoing opioid crisis lies at the intersection of two public health challenges: reducing the burden of suffering from pain and containing the rising toll of the harms that can arise*

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*from the use of opioid medications. Chronic pain and opioid use disorder both represent complex human conditions affecting millions of Americans and causing untold disability and loss of function. In the context of the growing opioid problem, the U.S. Food and Drug Administration*

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*(FDA) launched an Opioids Action Plan in early 2016. As part of this plan, the FDA asked the National Academies of Sciences, Engineering, and Medicine to convene a committee to update the state of the science on pain research, care, and education and to identify actions the FDA and others*

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*can take to respond to the opioid epidemic, with a particular focus on informing FDA's development of a formal method for incorporating individual and societal considerations into its risk-benefit framework for opioid approval and monitoring.*

*Research and development in thermal*

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*engineering for power systems are of significant importance to many scientists who are engaged in research and design work in power-related industries and laboratories. This book focuses on variety of research areas including Components of Compressor and Turbines that are used for both*

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*electric power systems and aero engines, Fuel Cells, Energy Conversion, and Energy Reuse and Recycling Systems. To be competitive in today's market, power systems need to reduce the operating costs, increase capacity factors and deal with many other tough issues. Heat Transfer and*

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*fluid flow issues are of great significance and it is likely that a state-of-the-art edited book with reference to power systems will make a contribution for design and R&D engineers and the development towards sustainable energy systems.*

*Updated concepts and tools to set up*



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*project plans, schedule work, monitor progress-and consistently achieve desired project results. In today's time-based and cost-conscious global business environment, tight project deadlines and stringent expectations are the norm. This classic book provides businesspeople with an*

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*excellent introduction to project management, supplying sound, basic information (along with updated tools and techniques) to understand and master the complexities and nuances of project management. Clear and down-to-earth, this step-by-step guide explains how to effectively spearhead*

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*every stage of a project-from developing the goals and objectives to managing the project team-and make project management work in any company. This updated second edition includes: \* New material on the Project Management Body of Knowledge (PMBOK) \* Do's and don'ts of*

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*implementing scheduling software\*  
Coverage of the PMP certification  
offered by the Project Management  
Institute\* Updated information on  
developing problem statements and  
mission statements\* Techniques for  
implementing today's project  
management technologies in any*

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*organization-in any industry.*

*Reinforced Concrete Design:*

*Principles And Practice*

*Electric Power Transformer*

*Engineering*

*A Computer Approach (SI Units*

*Version)*

*A Textbook of Fluid Mechanics and*

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*Hydraulic Machines*

*CAD/CAM/CIM*

Designed as a textbook for  
undergraduate students in  
various engineering  
disciplines—Mechanical,  
Civil, Industrial

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Engineering, Electronics  
Engineering and Computer  
Science—and for  
postgraduate students in  
Industrial Engineering and  
Water Resource Management,  
this comprehensive and

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well-organized book, now in its Second Edition, shows how complex economic decisions can be made from a number of given alternatives. It provides the managers not only a



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sound basis but also a clear-cut approach to making decisions. These decisions will ultimately result in minimizing costs and/or maximizing benefits. What is more,

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the book adequately illustrates the concepts with numerical problems and Indian cases. While retaining all the chapters of the previous edition, the book adds a number of

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topics to make it more comprehensive and more student friendly. What's New to This Edition • Discusses different types of costs such as average cost, recurring cost, and

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life cycle cost. • Deals with different types of cost estimating models, index numbers and capital allowance. • Covers the basics of nondeterministic decision making. •

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Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation. •  
Discusses the basic

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concepts of Accounting.  
This book, which is  
profusely illustrated with  
worked-out examples and a  
number of diagrams and  
tables, should prove  
extremely useful not only

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as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

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Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields which



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deal with the science of materials at nanoscale ( $10^{-9}$ ). On the other hand, biotechnology is another field that deals with contemporary challenges. Nanobiotechnology fills

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the gap between these two fields. It merges physical, chemical, and biological principles in a single realm. This combination opens up new possibilities. At

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nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with modified surface layers for compatibility

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with living systems,  
improved dissolution in  
water, or biorecognition  
leading to enhanced end  
results in  
biotechnological systems.  
These nanoparticles can

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also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities. Nanobiotechnology is used in bioconjugate chemistry

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by coalescing up the  
functionality of non-  
organically obtained  
molecular components and  
biological molecules in  
order to veil the  
immunogenic moieties for

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targeted drug delivery,  
bioimaging and biosensing.  
This book blends the  
science of biology,  
medicine, bioinorganic  
chemistry, bioorganic  
chemistry, material and

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physical sciences,  
biomedical engineering,  
electrical, mechanical,  
and chemical science to  
present a comprehensive  
range of advancements. The  
development of nano-based



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materials has made for a greater understanding of their characterization, using techniques such as transmission electron microscope, FTIR, X-ray diffraction, scanning

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electron microscope EDX,  
and so on. This volume  
also highlights uses in  
environmental remediation,  
environmental biosensors  
and environmental  
protection. It also

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emphasizes the  
significance of  
nanobiotechnology to a  
series of medical  
applications viz.,  
diagnostics, and  
therapeutics stem cell

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technology, tissue  
engineering enzyme  
engineering, drug  
development and delivery.  
In addition this book also  
offers a distinctive  
understanding of

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nanobiotechnology from  
researchers and educators  
and gives a comprehensive  
facility for future  
developments and current  
applications of  
nanobiotechnology.

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"This second edition maintains the book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure

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national resources and for  
climate change mitigation,  
more extensively  
illustrated with case  
studies and worked  
problems. The presentation  
has been improved

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throughout, along with a new chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied



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engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common

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symbols and cross  
referencing apply  
throughout, essential data  
are tabulated in  
appendices. Sections on  
social and environmental  
aspects have been added to

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each technology chapter."

-- back cover.

SystemVerilog language  
consists of three  
categories of features --  
Design, Assertions and  
Testbench. Assertions add

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a whole new dimension to the ASIC verification process. Engineers are used to writing testbenches in verilog that help verify their design. Verilog is a

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procedural language and is very limited in capabilities to handle the complex ASICs built today. SystemVerilog assertions (SVA) is a declarative language. The temporal

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nature of the language  
provides excellent control  
over time and allows  
multiple processes to  
execute simultaneously.  
This provides the  
engineers a very strong

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tool to solve their  
verification problems. The  
language is still new and  
the thinking is very  
different from the user's  
perspective when compared  
to standard verilog

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language. There is not enough expertise or intellectual property available as of today in the field. While the language has been defined very well, there is no



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practical guide that shows how to use the language to solve real verification problems. This book is a practical guide that will help people to understand this new language and

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adopt assertion based  
verification methodology  
quickly.

Nanomaterials and

Environmental

Biotechnology

Design and Construction of

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Nuclear Power Plants  
Proceedings of the 3rd  
International Conference  
on Advanced Technologies  
for Societal  
Applications—Volume 2  
ENGINEERING ECONOMICS

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A Textbook of Strength of  
Materials

This book comprises select  
proceedings of the International  
Conference on Emerging Trends in  
Mechanical Engineering (ICETME  
2018). The book covers various

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topics of mechanical engineering like computational fluid dynamics, heat transfer, machine dynamics, tribology, and composite materials. In addition, relevant studies in the allied fields of manufacturing, industrial and production

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engineering are also covered. The applications of latest tools and techniques in the context of mechanical engineering problems are discussed in this book. The contents of this book will be useful for students, researchers as well as

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industry professionals.

Covering the fundamental theory of electric power transformers, this book provides the background required to understand the basic operation of electromagnetic induction as applied to

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transformers. The book is divided into three fundamental groupings: one stand-alone chapter is devoted to Theory and Principles, nine chapters individually treat major This book will allow you to gain practical skills and know-how in



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grounding, bonding, lightning & surge protection. Few topics generate as much controversy and argument as that of grounding and the associated topics of surge protection, shielding and lightning protection of electrical and

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electronic systems. Poor grounding practice can be the cause of continual and intermittent difficult-to-diagnose problems in a facility. This book looks at these issues from a fresh yet practical perspective and enables you to reduce expensive

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downtime on your plant and equipment to a minimum by correct application of these principles.

Learning outcomes: \* Apply the various methods of grounding electrical systems \* Detail the applicable national Standards \*

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Describe the purposes of grounding and bonding \* List the types of systems that cannot be grounded \* Describe what systems can be operated ungrounded \* Correctly shield sensitive communications cables from noise and interference

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- \* Apply practical knowledge of surge and transient protection \*
- Troubleshoot and fix grounding and surge problems \*
- Design, install and test an effective grounding system for electronic equipment \*
- Understand lightning and how to

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minimize its impact on your facility \*  
Protect sensitive equipment from  
lightning · An engineer's guide to  
earthing, shielding, lightning and  
surge protection designed to deliver  
reliable equipment and  
communications systems that

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comply with international and national codes · Discover how to reduce plant downtime and intermittent faults by implementing best-practice grounding/earthing techniques · Learn the principles of cable shielding in communication

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networks

This book, divided in two volumes,  
originates from Techno-Societal  
2020: the 3rd International  
Conference on Advanced  
Technologies for Societal  
Applications, Maharashtra, India,



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that brings together faculty members of various engineering colleges to solve Indian regional relevant problems under the guidance of eminent researchers from various reputed organizations. The focus of this volume is on

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technologies that help develop and improve society, in particular on issues such as advanced and sustainable technologies for manufacturing processes, environment, livelihood, rural employment, agriculture, energy,

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transport, sanitation, water, education. This conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to

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solve problems in their region. On the other hand, technologies proposed by expert researchers may find applications in different regions. This offers a multidisciplinary platform for researchers from a broad range of

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