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Textbook on Professional Ethics and Human Values

Useful Methods and Techniques

Basics of Engineering Economy

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Refining Biomass Residues for Sustainable Energy and Bioproducts

The Impact of Economy and Technology

Handbook of Research on Engineering Innovations and Technology Management in Organizations

A First Course in Quality Engineering

Analysis, Problems, Cases

Proceedings of the International Conference on Advances in Mathematics and Computing (ICAMC 2020)
Sandwich Composites
Innovative Applications of Big Data in the Railway Industry
Integration, Challenges and Optimization
Ethics in Engineering
Fossil Free Fuels
ENGINEERING ECONOMICS
Advances in Structural Engineering
Unmanned Aerial System in Geomatics
4th Workshop on Engineering Applications, WEA 2017, Cartagena, Colombia, September 27-29, 2017, Proceedings
CAD, 3D Modeling, Engineering Analysis, and Prototype Experimentation
Engineering Economy
Integrating Statistical and Management Methods of Quality, Second Edition

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Cost Analysis Senthil
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ANDREA GONZALEZ

Textbook on Professional Ethics and Human Values Elsevier

Use of big data has proven to be beneficial within many different industries, especially in the field of engineering; however, infiltration of this type of technology into more traditional heavy industries, such as the railways, has been limited. Innovative Applications of Big Data in the Railway Industry is a pivotal reference source for

the latest research findings on the utilization of data sets in the railway industry. Featuring extensive coverage on relevant areas such as driver support systems, railway safety management, and obstacle detection, this publication is an ideal resource for transportation planners, engineers, policymakers, and graduate-level engineering students seeking current research on a specific application of big data and its effects on transportation. Useful Methods and Techniques IGI Global ENGINEERING ECONOMICS PHI Learning Pvt. Ltd.
Basics of Engineering Economy McGraw-

Hill College

This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and

formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

Distributed Energy Resources in Microgrids
CRC Press

Truett and Truett's Eighth Edition shows how to use economic analysis to solve problems and make effective decisions in the complex world of business. The highly successful problem-solving approach, clear and accurate presentation of economic theory, and outstanding cases

combine to make the best presentation of managerial economics yet. Walks readers step by step through specific types of problems, including elasticity calculations, cost minimization, and profit maximization. Shows how real-world firms have addressed issues discussed in the book. Emphasizes the global aspects of managerial economics and its application in the international marketplace.

New Trends in Applied Analysis and Computational Mathematics Springer Nature

The book will help the students to understand variety of economics and sociological issues and concepts. It shall provide to them an insight and knowledge to understand the impact of developments in business and society. The book will meet the requirements of the engineers to evaluate the comparison of alternatives that involve spending money and their likely outcomes.

A Roadmap Springer Nature

This book comprises select proceedings of the International Conference on Trends and Recent Advances in Civil Engineering (TRACE 2020). The volume focuses on latest research works carried out in the

area of water resources and transportation engineering. The topics include technological intervention and solution for water security, sustainability in water resources and transportation infrastructure, crop protection, resilience to disaster like flood, hurricane and drought, traffic congestion, transport planning etc. It aims to address broad spectrum of audience by covering interdisciplinary innovative research and applications in these areas. It will be useful to graduate students, researchers, scientists, and practitioners working in water resources and transportation engineering domain.

Dynamics, Volume Two Academic Press
Many approaches have been undertaken to mitigate global climate change, including the movement away from fossil fuels. Fossil Free Fuels: Trends in Renewable Energy examines several key topics, such as the utilization of biofuels as a sustainable renewable resource, recycling and untapped waste-to-energy products, and other carbon-neutral strategies in various industries, such as the transportation, construction, and manufacturing sectors. It provides recent

updates on the latest technologies, modeling, design, and technical aspects, as well as several practical case studies. The current world energy scenario is examined and various solutions to larger environmental problems are outlined in terms of the shift to more alternative energy sources. Features: Minimizes technical jargon in a straightforward style for a wider audience Discusses sustainable options for different industries, such as the use of green materials in the construction sector, biofuels for transportation, and many more Includes numerous illustrations, tables, and figures to aid in understanding This book serves as a practical reference for engineers, researchers, environmental consultants working in renewable energy industries, and students.

Design, Analysis and Applications of Renewable Energy Systems Springer Completely revised and updated, A First Course in Quality Engineering: Integrating Statistical and Management Methods of Quality, Second Edition contains virtually all the information an engineer needs to function as a quality engineer. The authors not only break things down very simply

but also give a full understanding of why each topic covered is essential to learning proper quality management. They present the information in a manner that builds a strong foundation in quality management without overwhelming readers. See what's new in the new edition: Reflects changes in the latest revision of the ISO 9000 Standards and the Baldrige Award criteria Includes new mini-projects and examples throughout Incorporates Lean methods for reducing cycle time, increasing throughput, and reducing waste Contains increased coverage of strategic planning This text covers management and statistical methods of quality engineering in an integrative manner, unlike other books on the subject that focus primarily on one of the two areas of quality. The authors illustrate the use of quality methods with examples drawn from their consulting work, using a reader-friendly style that makes the material approachable and encourages self-study. They cover the must-know fundamentals of probability and statistics and make extensive use of computer software to illustrate the use of the computer in solving quality problems. Reorganized to

make the book suitable for self study, the second edition discusses how to design Total Quality System that works. With detailed coverage of the management and statistical tools needed to make the system perform well, the book provides a useful reference for professionals who need to implement quality systems in any environment and candidates preparing for the exams to qualify as a certified quality engineer (CQE).

Professional Ethics and Human Values CRC Press

Designed as a textbook for undergraduate students in various engineering disciplines—Mechanical, Civil, Industrial Engineering, Electronics Engineering and Computer Science—and for postgraduate students in Industrial Engineering and Water Resource Management, this comprehensive and 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 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,

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 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 life cycle cost.
- Deals with different types of cost estimating models, index numbers and capital allowance.
- Covers the basics of nondeterministic decision making.
- Describes the meaning of cash flows with probability distributions and decision making, and selection of alternatives using simulation.
- Discusses the basic 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 as a text but also as a reference for those offering courses in such areas as Project Management, Production Management, and Financial Management.

New Age International

Supply Chain Engineering considers how modern production and operations management techniques can respond to

the pressures of the competitive global marketplace. It presents a comprehensive analysis of concepts and models related to outsourcing, dynamic pricing, inventory management, RFID, and flexible and re-configurable manufacturing systems, as well as real-time assignment and scheduling processes. A significant part is also devoted to lean manufacturing, line balancing, facility layout and warehousing techniques. Explanations are based on examples and detailed algorithms while discarding complex and unnecessary theoretical minutiae. All examples have been carefully selected from an industrial application angle. This book is written for students and professors in industrial and systems engineering, management science, operations management and business. It is also an informative reference for managers looking to improve the efficiency and effectiveness of their production systems.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) Springer Science & Business Media

This book constitutes the refereed proceedings of the Forth Workshop on Engineering Applications, WEA 2017,

held in Cartagena, Colombia, in September 2017. The 59 revised full papers presented were carefully reviewed and selected from 156 submissions. The papers are organized in topical sections such as computer science; computational intelligence; simulation systems; internet of things; fuzzy sets and systems; power systems; logistics and operations management; miscellaneous applications.

International Journal of System Dynamics Applications Academic Press

Based on cutting-edge research from behavioral science and economics, this eye-opening examination of how scarcity affects our daily lives reveals how individuals and organizations can better manage scarcity for greater satisfaction and success.

Microprocessors and Microcontrollers Thomas Telford Publishing

Today, more and more organizations are realizing the importance of practising ethics in their business dealings. And the engineering profession is no exception to this. For, any policy or practice that gives a go-by to professional ethics—which essentially entails fair and transparent dealings based on sound moral

principles—cannot enjoy the confidence of the customer for long. It is in this context that a book on Professional Ethics is very significant. This systematically organized text opens with an introduction to Human Values and discusses, with great skill and expertise, the various approaches to the study of ethical behaviour, ethical theories, value-based ethics and the engineers' responsibility for safety and risk, collegiality and loyalty. Besides, the responsibilities of engineers in organizational setting, and global issues such as environmental ethics, computer ethics, and Intellectual Property Rights (IPRs) are also covered in this text. The Case Studies lend a practical orientation to the book, and the Review Questions sharpen the analytical skills of the students. This is a must have book for the students of engineering and management.

Proceedings of UASG 2019 McGraw-Hill Science, Engineering & Mathematics

The utilization of various types of biomass residue to produce products such as biofuels and biochemicals means biorefinery technology using biomass residues may become a one-stop solution to the increasing need for sustainable,

non-fossil sources of energy and chemicals. Refining Biomass Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment and Economics focuses on the various biorefineries currently available and discusses their uses, challenges, and future developments. This book introduces the concept of integrated biorefinery systems, as well as their operation and feedstock sourcing. It explores the specificities, current developments, and potential end products of various types of residue, from industrial and municipal to agricultural and marine, as well as residue from food industries. Sustainability issues are discussed at length, including life cycle assessment, economics, and cost analysis of different biorefinery models. In addition, a number of global case studies examine successful experiences in different regions. This book is an ideal resource for researchers and practitioners in the field of bioenergy and waste management who are looking to learn about technologies involved in residue biorefinery systems, how to reduce their environmental impacts, and how to ensure their commercial viability. Explores a range of

different biorefinery categories, such as industrial, agricultural, and marine biomass residues Includes a Life Cycle Assessment of biorefinery models, in addition to costs and market analysis. Features case studies from around the world and is written by an international team of authors

Sociology and Economics for Engineers CRC Press

This succinct book focuses on computer aided design (CAD), 3-D modeling, and engineering analysis and the ways they can be applied effectively in research and industrial sectors including aerospace, defense, automotive, and consumer products. These efficient tools, deployed for R&D in the laboratory and the field, perform efficiently three-dimensional modeling of finished products, render complex geometrical product designs, facilitate structural analysis and optimal product design, produce graphic and engineering drawings, and generate production documentation. Written with an eye toward green energy installations and novel manufacturing facilities, this concise volume enables scientific researchers and engineering professionals to learn design

techniques, control existing and complex issues, proficiently use CAD tools, visualize technical fundamentals, and gain analytic and technical skills. This book also: · Equips practitioners and researchers to handle powerful tools for engineering design and analysis using many detailed illustrations · Emphasizes important engineering design principles in introducing readers to a range of techniques · Includes tutorials providing readers with appropriate scaffolding to accelerate their learning process · Adopts a product development, cost-consideration perspective through the book's many examples

Life Cycle Assessment of Energy Systems
IGI Global

Having enjoyed two highly successful previous editions, this text has been revised to coincide with the new directive by ABET (the Accrediting Board for Engineering and Technology) to expand the Ethics for Engineers course. The third edition can be used by freshmen studying the Introduction to Engineering course, or at the senior level, within the capstone design course.

Financial Decision Making for Engineers

KHANNA PUBLISHING HOUSE

Design, Analysis and Applications of Renewable Energy Systems covers recent advancements in the study of renewable energy control systems by bringing together diverse scientific breakthroughs on the modeling, control and optimization of renewable energy systems as conveyed by leading energy systems engineering researchers. The book focuses on present novel solutions for many problems in the field, covering modeling, control theorems and the optimization techniques that will help solve many scientific issues for researchers. Multidisciplinary applications are also discussed, along with their fundamentals, modeling, analysis, design, realization and experimental results. This book fills the gaps between different interdisciplinary applications, ranging from mathematical concepts, modeling, and analysis, up to the realization and experimental work. Presents some of the latest innovative approaches to renewable energy systems from the point-of-view of dynamic modeling, system analysis, optimization, control and circuit design. Focuses on advances related to optimization techniques for renewable

energy and forecasting using machine learning methods. Includes new circuits and systems, helping researchers solve many nonlinear problems

Engineering Economics Elsevier

The volume contains original research papers as the Proceedings of the International Conference on Advances in Mathematics and Computing, held at Veer Surendra Sai University of Technology, Odisha, India, on 7-8 February, 2020. It focuses on new trends in applied analysis, computational mathematics and related areas. It also includes certain new models, image analysis technique, fluid flow problems, etc. as applications of mathematical analysis and computational mathematics. The volume should bring forward new and emerging topics of mathematics and computing having potential applications and uses in other areas of sciences. It can serve as a valuable resource for graduate students, researchers and educators interested in mathematical tools and techniques for solving various problems arising in science and engineering.

Supply Chain Engineering John Wiley & Sons

The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 - 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural

engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Theory, Design and Application Academic Press

Wind energy's bestselling textbook- fully revised. This must-have second edition includes up-to-date data, diagrams, illustrations and thorough new material on: the fundamentals of wind turbine aerodynamics; wind turbine testing and modelling; wind turbine design standards; offshore wind energy; special purpose applications, such as energy storage and fuel production. Fifty additional homework problems and a new appendix on data processing make this comprehensive edition perfect for engineering students.

This book offers a complete examination of one of the most promising sources of renewable energy and is a great introduction to this cross-disciplinary field for practising engineers. "provides a wealth of information and is an excellent reference book for people interested in the subject of wind energy." (IEEE Power & Energy Magazine, November/December 2003) "deserves a place in the library of every university and college where renewable energy is taught." (The International Journal of Electrical Engineering Education, Vol.41, No.2 April 2004) "a very comprehensive and well-organized treatment of the current status of wind power." (Choice, Vol. 40, No. 4, December 2002)

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