

## Engineering Mcgraw Hill

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The Engineering Guide to LEED-New Construction: Sustainable Construction for Engineers (GreenSource) Pre-Engineering

A presentation of the salient and important aspects of chemical engineering for practising professionals. While intended for chemical engineers, it should also be useful for chemists, mechanical engineers, materials engineers, environmental engineers and other engineers and scientists. Special features include chapters on process operations scale-up and environmental operations in addition to traditional areas of chemical engineers.

*Engineering Mechanics* McGraw-Hill Higher Education

An Up-to-Date Guide to the Latest LEED-New Construction Guidelines Fully revised for version 3.0 of the LEED-New Construction rating system (LEED-2009), this GreenSource book helps you acquire the skills needed to apply LEED-NC to sustainable construction projects. The Engineering Guide to LEED-New Construction, second edition, offers comprehensive coverage of the environmental systems and impacts on which many of the LEED-NC subcategories are based. Detailed equations and exercises in the book can be used to perform the calculations outlined in LEED-NC. Valuable information on real-world applications of LEED-NC in military, low-impact development (LID), and other sectors is included in this practical resource. **THE ENGINEERING GUIDE TO LEED-NEW CONSTRUCTION COVERS:** Introduction to the U.S. Green Building Council's LEED-NC

rating system Sustainable sites Water efficiency Energy and atmosphere Materials and resources Indoor environmental quality Innovation in design and regional priorities A systematic view of green and minimum program requirements Department of Defense sustainable construction and indoor air quality (IAQ) Low-impact development

Automatic Control Engineering McGraw-Hill Science, Engineering & Mathematics

This text introduces the important aspects associated with the failure analysis of engineering components; and provides a treatment of both macroscopic and microscopic observations of fracture surfaces. --

McGraw-Hill Professional Engineering McGraw Hill Professional Solve any mechanical engineering problem quickly and easily This trusted compendium of calculation methods delivers fast, accurate solutions to the toughest day-to-day mechanical engineering problems. You will find numbered, step-by-step procedures for solving specific problems together with worked-out examples that give numerical results for the calculation. Covers: Power Generation; Plant and Facilities Engineering; Environmental Control; Design Engineering New Edition features methods for automatic and digital control; alternative and renewable energy sources; plastics in engineering design

*Principles of Electrical Engineering* Asia Higher Education Engineering/Computer Science Mechanical Engineering

A complete guide to electric vehicle design, operation, and adoption This hands-on resource thoroughly explains the technologies and techniques involved in the design and operation of today's electric vehicles. Originally written for use in a course co-taught by the authors at Stanford University, Electric Vehicle Engineering discusses the physics of vehicle motion; the electrical principles on

which motors rely; the chemistry, operation, and charging of lithium-ion batteries; the design and operation of motor controllers; the energy efficiency and environmental impact of electric vehicles; and the policy and economics affecting their adoption. After teaching you the theory, the authors will guide you through a hands-on project in which you will build a model electric car from the ground up with a hand-wound electric motor of your own design. Coverage includes: Introduction to electric vehicles Electric vehicle history Vehicle dynamics Electric motors Lithium-ion batteries Controllers Well-to-wheels energy and emissions analysis Electric vehicle policies and economics Future prospects

[Construction Safety Engineering Principles \(McGraw-Hill Construction Series\)](#) McGraw-Hill Science, Engineering & Mathematics

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

#### **Mechanical Engineering Design** McGraw Hill Professional

In recent years, automatic control systems have been rapidly increasing in importance in all fields of engineering. The applications of control systems cover a very wide range, from the design of precision control devices such as delicate electronic equipment to the design of massive equipment such as that used for the manufacture of steel or other industrial processes. Microprocessors have added a new dimension to the capability of control systems. New applications for automatic controls are continually being discovered. This book offers coverage of control engineering beginning with discussions of how typical control systems may be represented by block diagrams. This is accomplished by first demonstrating how to represent each component or part of a system as a simple block diagram, then explaining how these individual diagrams may be connected to form the overall block diagram, just as the actual components are connected to form the complete control system. Because actual control systems frequently contain nonlinear components, considerable emphasis is given to such components. The book goes on to show that important information concerning the basic or inherent operating characteristics of a system may be obtained from knowledge of the steady-state behavior. Continuing on in the book's coverage, readers will find information involving: how the linear differential equations that describe the operation of control systems may be solved algebraically by the use of Laplace transforms; general characteristics of transient behavior; the application of the root-locus method to the design of control systems; the use of the analog computer to simulate control systems; state-space methods; digital control systems; frequency-response methods; and system compensation.

#### **Energy Efficiency and Management for Engineers** McGraw-Hill Companies

If YOU COULD BUY ONLY ONE DESKTOP REFERENCE—THIS WOULD BE IT ! Here are the tables, formulas, charts, diagrams, figures, key methods and worked-out problems engineers in design, product development, operation, production, analysis, and economic evaluation must have for successful day-to-day problem solving. This dynamic one-volume database provides reliable, ready-to-apply solutions to literally hundreds of engineering problems — formatted for convenient instant access and carefully culled from McGraw-Hill's most popular and respected handbooks, textbooks, and specialized technical books. McGraw-Hill's Engineering Companion contains sections on the basics of engineering

science and key methods and tools in every branch of engineering: \* mechanical engineering \* civil engineering \* electrical engineering \* electronic engineering \* metallurgical engineering \* architectural and building engineering \* bioengineering \* and more Covering all major engineering fields and extensively updated for maximum usability, this is the perfect working tool for today's new breed of engineer.

#### **Standard Handbook of Environmental Engineering** W. W. Norton & Company

Advances in DSP (digital signal processing) have radically altered the design and usage of radar systems -- making it essential for both working engineers as well as students to master DSP techniques. This text, which evolved from the author's own teaching, offers a rigorous, in-depth introduction to today's complex radar DSP technologies. Contents: Introduction to Radar Systems \* Signal Models \* Sampling and Quantization of Pulsed Radar Signals \* Radar Waveforms \* Pulse Compression Waveforms \* Doppler Processing \* Detection Fundamentals \* Constant False Alarm Rate (CFAR) Detection \* Introduction to Synthetic Aperture Imaging

#### **Engineering Economy** McGraw Hill Professional

Reduce the enormous economic and environmental impact of corrosion. Emphasizing quantitative techniques, this guide provides you with: \*Theory essential for understanding aqueous, atmospheric, and high temperature corrosion processes Corrosion resistance data for various materials Management techniques for dealing with corrosion control, including life prediction and cost analysis, information systems, and knowledge re-use Techniques for the detection, analysis, and prevention of corrosion damage, including protective coatings and cathodic protection More

#### **Failure Analysis of Engineering Materials** McGraw Hill Professional

The "Classic Edition" of Shigley & Mischke, Mechanical Engineering Design 5/e provides readers the opportunity to use this well-respected version of the bestselling textbook in Machine Design. Originally published in 1989, MED 5/e provides a balanced overview of machine element design, and the background methods and mechanics principles needed to do proper analysis and design. Content-wise the book remains unchanged from the latest reprint of the original 5th edition. Instructors teaching a course and needing problem solutions can contact McGraw-Hill Account Management for a copy of the Instructor Solutions Manual.

#### **Advanced Thermodynamics for Engineers** McGraw Hill Professional

This highly effective study guide offers 100% coverage of every

subject on the FE Civil exam This self-study resource contains all of the information you need to prepare for and pass the challenging FE Civil exam on the first try. The book features clear explanations of every topic on the exam as well as hands-on exam strategies and accurate practice problems with fully worked solutions. Organized to follow the order of the official exam syllabus, the book includes references to the official FE Reference Handbook along with tips on how to utilize that resource during the exam itself. Written by a leading civil engineering educator and exam coach, Fundamentals of Engineering FE Civil All-in-One Exam Guide helps you pass the exam with ease. •Contains complete coverage of all objectives for the FE Civil exam•Follows the exact order of the official exam syllabus •Written by an experienced educator and researcher

#### **Handbook of Corrosion Engineering** Tata McGraw-Hill Education

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Identify energy conservation opportunities in buildings and industrial facilities and implement energy efficiency and management practices with confidence This comprehensive engineering textbook helps students master the fundamentals of energy efficiency and management and build confidence in applying basic principles of the field to practice. Written by a team of experienced energy efficiency practitioners and educators, Energy Efficiency and Management for Engineers features foundations and practice of energy efficiency principles for all aspects of energy production, distribution, and consumption. Packed with numerous worked-out examples and over 1,400 end-of-chapter problems, the book makes clear connections between theory and practice and provides the engineering rationale behind all energy efficiency measures. Coverage includes: • Energy management principles • Energy audits • Billing rate structures • Power factor • Specific energy consumption • Cogeneration • Boilers and steam systems • Heat recovery systems • Thermal insulation • Heating and cooling of buildings • Windows and infiltration • Electric motors • Compressed air lines • Lighting systems • Energy efficiency practices in buildings • Economic analysis and environmental impacts

#### **Process Analysis and Design for Chemical Engineers** McGraw Hill Professional

Hundreds of well-illustrated articles explore the most important fields of science. Based on content from the McGraw-Hill Concise Encyclopedia of Science & Technology, Fifth Edition, the most widely used and respected science reference of its kind in print, each of these subject-specific quick-reference guides features: \* Detailed, well-illustrated explanations, not just definitions \* Hundreds of concise yet authoritative articles in each volume \* An easy-to-

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understand presentation, accessible and interesting to non-specialists \*

A portable, convenient format \* Bibliographies, appendices, and other information supplement the articles

The McGraw-Hill Handbook of Essential Engineering Information and Data McGraw-Hill College

Now revised and updated, the second edition of this book includes new topics including a look at pollution prevention, drinking water standards, volatile organic compounds, indoor air quality and emissions monitoring.

*Electric Vehicle Engineering* McGraw Hill Professional

This book aims to cover all aspects of teaching engineering and other technical subjects. It presents both practical matters and educational theories in a format that will be useful for both new and experienced teachers.

Shigley's Mechanical Engineering Design McGraw Hill Professional

The author is one of the world's foremost experts, with nearly 35 years as a consultant specializing in safety research and hazard analysis.

*Green Electrical Energy Storage* McGraw-Hill Concise Encycloped

This 9th edition features a major new case study developed to help illuminate the complexities of shafts and axles.

*Engineering Plastics Handbook* McGraw Hill Professional

Tougher and cheaper than other materials, thermoplastic resins are used in applications ranging from aircraft frames to glass windows. This is the first authoritative source for building and evaluating new product lines. Written by a top team of international experts, this reference incorporates the chemical, mechanical, and physical data necessary to compare and evaluate existing product lines with new and emerging products.

**McGraw-Hill's Engineering Companion** McGraw-Hill Professional Publishing

Furthermore, a chapter on the microscopic implications of the entropy function and the second law is also included.