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Coulson and Richardson's Chemical Engineering CRC Press

This book presents the latest developments in the area of non-thermal preservation of foods and covers various topics such as high-pressure processing, pulsed electric field processing, pulsed light processing, ozone processing, electron beam processing, pulsed magnetic field, ultrasonics, and plasma processing. Non-thermal Processing of Foods discusses the use of non-thermal processing on commodities such as fruits and vegetables, cereal products, meat, fish and poultry, and milk and milk products. Features: Provides latest information regarding the use of non-thermal processing of food products Provides information about most of the non-thermal technologies available for food processing Covers food products such as fruits and vegetables, cereal products, meat, fish and poultry, and milk and milk products Discusses the packaging requirements for foods processed with non-thermal techniques The effects of non-thermal processing on vital food components, enzymes and microorganisms is also discussed. Safety aspects and packaging requirements for non-thermal processed foods are also presented. Rounding out coverage of this technology are chapters that cover commercialization, regulatory issues and consumer acceptance of foods processed with non-thermal techniques. The future trends of non-thermal processing are also investigated. Food scientists and food engineers, food regulatory agencies, food industry personnel and academia (including graduate students) will find valuable information in this book. Food product developers and food processors will also benefit from this book.

Pressure Vessel Design: The Direct Route CRC Press

This text is an established bestseller in engineering technology programs, and the Seventh Edition of Applied Strength of Materials continues to provide comprehensive coverage of the mechanics of materials. Focusing on active learning and consistently reinforcing key concepts, the book is designed to aid students in their first course on the strength of materials. Introducing the theoretical background of the subject, with a strong visual component, the book equips readers with problem-solving techniques. The updated Seventh Edition incorporates new technologies with a strong pedagogical approach. Emphasizing realistic engineering applications for the analysis and design of structural members, mechanical devices, and systems, the book includes such topics as torsional deformation, shearing stresses in beams, pressure vessels, and design properties of materials. A "big picture" overview is included at the beginning of each chapter, and step-by-step problem-solving approaches are used throughout the book. FEATURES Includes "the big picture" introductions that map out chapter coverage and provide a clear context for readers Contains everyday examples to provide context for students of all levels Offers examples from civil, mechanical, and other branches of engineering technology Integrates analysis and design approaches for strength of materials, backed up by real engineering examples Examines the latest tools, techniques, and examples in applied engineering mechanics This book will be of interest to students in the field of engineering technology and materials engineering as an accessible and understandable introduction to a complex field.

Pressure Vessel Handbook CRC Press

This text covers the properties of particulate system, including the character of individual particles and their behaviour in fluids.

Wind Loads for Petrochemical and Other Industrial Facilities Amer Society of Civil Engineers

Get up to speed with the latest edition of the ASME Boiler & Pressure Code This thoroughly revised, classic engineering tool streamlines the task of understanding and applying the complex ASME Boiler & Pressure Vessel Code for fabricating, purchasing, testing, and inspecting pressure vessels. The book explains the value of code standards, shows how the code applies to each component, and clarifies confusing and obscure requirements. Pressure Vessels: The ASME Code Simplified, Ninth Edition enables code compliance on any pressure-vessel-related project—both to obtain certification and to meet performance goals in a cost-effective manner. This new edition has been completely refreshed to align with all changes to the code, and features updated discussions of pressure vessels, high-pressure vessels, design, and fabrication. You'll learn how to comply with ASME standards for: Safety procedures for design and maintenance Inspection and quality control Welding Nondestructive testing Fabrication and installation Nuclear vessels and required assurance systems

Superpave Mix Design CRC Press

This book explores a new, economically viable approach to pressure vessel design, included in the (harmonized) standard EN 13445 (for unfired pressure vessels) and based on linear as well as non-linear Finite Element analyses. It is intended as a supporting reference of this standard's route, providing background information on the underlying principles, basic ideas, presuppositions, and new notions. Examples are included to familiarize readers with this approach, to highlight problems and solutions, advantages and disadvantages. * The only book with background information on the direct route in pressure vessel design. * Contains many worked examples, supporting figures and tables and a comprehensive glossary of terms.

Theory and Design of Modern Pressure Vessels Springer Nature

This book features papers focusing on the implementation of new and future technologies, which were presented at the International Conference on New Technologies, Development, and Application, held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on June 24-26, 2021. It covers a wide range of future technologies and technical disciplines, including complex systems such as Industry 4.0; patents in industry 4.0; robotics; mechatronics systems; automation; manufacturing; cyber-physical and autonomous systems; sensors; networks; control, energy, renewable

energy sources; automotive and biological systems; vehicular networking and connected vehicles; effectiveness and logistics systems; smart grids; nonlinear systems; power, social and economic systems; education; and IoT. The book New Technologies, Development and Application III is oriented toward Fourth Industrial Revolution "Industry 4.0," implementation which improves many aspects of human life in all segments and leads to changes in business paradigms and production models. Further, new business methods are emerging and transforming production systems, transport, delivery, and consumption, which need to be monitored and implemented by every company involved in the global market.

Pressure Vessels Pressure Vessel Design Manual

This book guides the reader through general and fundamental problems of pressure vessel design. The basic approach is rigorously scientific with a complete theoretical development of the topics treated. The concrete and precise calculation criteria provided can be immediately applied to actual designs. The book also comprises unique contributions on important topics like Deformed Cylinders, Flat Heads, or Flanges.

Pressure Vessel Design Manual Gulf Professional Publishing

A complete overview and considerations in process equipment design Handling and storage of large quantities of materials is crucial to the chemical engineering of a wide variety of products. Process Equipment Design explores in great detail the design and construction of the containers - or vessels - required to perform any given task within this field. The book provides an introduction to the factors that influence the design of vessels and the various types of vessels, which are typically classified according to their geometry. The text then delves into design and other considerations for the construction of each type of vessel, providing in the process a complete overview of process equipment design.

ASME Code Simplified Elsevier

This edition covers every major aspect of pressure vessel design and provides up-to-date requirements given in ASME, ASCE, UBC, and AISC codes. The well-respected manual offers page after page of fully illustrated, step-by-step procedures. Many of the 45 design procedures have been updated and expanded to: - Incorporate the broadest range of design cases - Provide the maximum flexibility - Supply more detail - Handle a greater variety of problems

How to Navigate Clueless Colleagues, Lunch-Stealing Bosses, and the Rest of Your Life at Work John Wiley & Sons

Demand for high-strength/lightweight vessels that tolerate high pressures and temperatures is increasing in today's chemical, petroleum, and metallurgical industries. This updated edition offers explanation of the design-by-analysis theories and practices that form the basis of the American Society of Mechanical Engineers codes. It shows how to analyze primary and secondary stresses in pressure vessels, and how to design vessels that can cope with extreme fatigue, embrittlement, irradiation, corrosion, thermal and mechanical shock, creep, brittle fracture, and crack growth in hostile environments. Annotation copyrighted by Book News, Inc., Portland, OR

Common Operating Problems and Practical Solutions Macmillan International Higher Education

This text explains vessel manufacture and procedures for quality assurance and control, methods for code specification compliance, all stages of the manufacturing process, and promotes uniformity of inspection, testing, and documentation. Analyzing radiographic testing procedures, the book acts as an explanation to the ASME code, features the A to Z of fabrication methodology, discusses NDT, heat treatment, and pad air and hydrostatic tests, methodology to compile a Manufacturer's Data Report, typical quality, inspection, and test plans, the requirements of welding procedure specification, procedure qualification records, and welder qualification tests, and recommended tolerances for vessels.

Pressure Vessels Field Manual McGraw Hill Professional

Pressure Vessel Design Manual Butterworth-Heinemann

Companion Guide to the ASME Boiler & Pressure Vessel Code Elsevier

The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on ergonomics, safety, and computer-aided design; *practical reference data that helps machines designers solve common problems--with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Engineers' Guide to Pressure Equipment Gulf Professional Publishing

This complete revision of Applied Process Design for Chemical and Petrochemical Plants, Volume 1 builds upon Ernest E. Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals. This new edition includes important supplemental mechanical and related data, nomographs and charts. Also included within are improved techniques and fundamental methodologies, to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment. All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application selection, and charts in readily usable form. Process engineers, designers, and operators will find more chemical

petrochemical plant design data in: Volume 2, Third Edition, which covers distillation and packed towers as well as material on azeotropes and ideal/non-ideal systems. Volume 3, Third Edition, which covers heat transfer, refrigeration systems, compression surge drums, and mechanical drivers. A. Kayode Coker, is Chairman of Chemical & Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He's both a chartered scientist and a chartered chemical engineer for more than 15 years. and an author of Fortran Programs for Chemical Process Design, Analysis and Simulation, Gulf Publishing Co., and Modeling of Chemical Kinetics and Reactor Design, Butterworth-Heinemann. Provides improved design manuals for methods and proven fundamentals of process design with related data and charts Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995.

Applied Strength of Materials SI Units Version McGraw Hill Professional

ASME Code for Power Boilers Simplified! Now there's a quick, easy way to make sense of one of the industry's most widely used regulatory documents: The ASME Boiler and Pressure Vessel Code. The ASME Code Simplified: Power Boilers, by Dyer D. Carroll and Dyer E. Carroll, Jr., clarifies every aspect of Section 1 of the Code plus its latest updates. You get dozens of real-world examples that help you apply the Code to the design, fabrication, repair, inspection and testing of all types of power boilers. Much more than just a Code ``decoder," it packs easy-to-follow procedures for obtaining ``S" and ``R" stamps plus scores of sample problems, questions and answers that help you prepare for the National Boiler and Pressure Vessel Board as well as ``A" and ``B" endorsement exams. You get instant access to the latest requirements for: Cylindrical components under both internal and external pressure; Formed heads; Braced and stayed surfaces; Reinforced openings in heads and shells; Appurtenances and appliances; Much more.

Design and Use of Process Safety Valves to ASME and International Codes and Standards McGraw Hill Professional

A pressure vessel is a container that holds a liquid, vapor, or gas at a different pressure other than atmospheric pressure at the same elevation. More specifically in this instance, a pressure vessel is used to 'distill/'crack' crude material taken from the ground (petroleum, etc.) and output a finer quality product that will eventually become gas, plastics, etc. This book is an accumulation of design procedures, methods, techniques, formulations, and data for use in the design of pressure vessels, their respective parts and equipment. The book has broad applications to chemical, civil and petroleum engineers, who construct, install or operate process facilities, and would also be an invaluable tool for those who inspect the manufacturing of pressure vessels or review designs. * ASME standards and guidelines (such as the method for determining the Minimum Design Metal Temperature) are impenetrable and expensive: avoid both problems with this expert guide. * Visual aids walk the designer through the multifaceted stages of analysis and design. * Includes the latest procedures to use as tools in solving design issues.

Pressure Vessels Elsevier

This report provides state-of-the-practice guidelines for the computation of wind-induced forces on industrial facilities with structural features outside the scope of current codes and standards.

Practical Guide to Pressure Vessel Manufacturing Wiley

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment -- Transport and storage of fluids.

Process Equipment Design Butterworth-Heinemann

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. The industry-standard resource for stress and strain formulas—fully updated for the latest advances and restructured for ease of use This newly designed and thoroughly revised guide contains accurate and thorough tabulated formulations that can be applied to the stress analysis of a comprehensive range of structural components. Roark's Formulas for Stress and Strain, Ninth Edition has been reorganized into a user-friendly format that makes it easy to access and apply the information. The book explains all of the formulas and analyses needed by designers and engineers for mechanical system design. You will get a solid grounding in the theory behind each formula along with real-world applications that cover a wide range of materials. Coverage includes: • The behavior of bodies under stress • Analytical, numerical, and experimental methods • Tension, compression, shear, and combined stress • Beams and curved beams • Torsion, flat plates, and columns • Shells of revolution, pressure vessels, and pipes • Bodies under direct pressure and shear stress • Elastic stability • Dynamic and temperature stresses • Stress concentration • Fatigue and fracture • Stresses in fasteners and joints • Composite materials and solid biomechanics

Vessel Design Bernan Press

Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design is one of the best-known and most widely adopted texts available for students of chemical engineering. The text deals with the application of chemical engineering principles to the design of chemical processes and equipment. The third edition retains its hallmark features of scope, clarity and practical emphasis, while providing the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards, as well as coverage of the latest aspects of process design, operations, safety, loss prevention, equipment selection, and more. The text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken), and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical industrial design projects drawn from a diverse range of process industries NEW TO THIS EDITION Includes new content covering food, pharmaceutical and biological processes and commonly used unit operations Provides updates on plant and equipment costs, regulations and technical standards Includes limited online access for students to Cost Engineering's Cleopatra Enterprise cost estimating software