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First developed as an accessible abridgement of the successful Handbook of Stem Cells, Essentials of Stem Cell Biology serves the needs of the evolving population of scientists, researchers, practitioners and students that are embracing the latest advances in stem cells. Representing the combined effort of seven editors and more than 200 scholars and scientists whose pioneering work has defined our understanding of stem cells, this book combines the prerequisites for a general understanding of adult and embryonic stem cells with a presentation by the world's experts of the latest research information about specific organ systems. From basic biology/mechanisms, early development, ectoderm, mesoderm, endoderm, methods to application of stem cells to specific human diseases, regulation and ethics, and patient perspectives, no topic in the field of stem cells is left uncovered. Selected for inclusion in Doody's Core Titles 2013, an essential collection development tool for health sciences libraries Contributions by Nobel Laureates and leading international investigators Includes two entirely new chapters devoted exclusively to induced pluripotent stem (iPS) cells written by the scientists who made the breakthrough Edited by a world-renowned author and researcher to present a complete story of stem cells in research, in application, and as the subject of political debate Presented in full color with glossary, highlighted terms, and bibliographic entries replacing references

Cutting-edge heat transfer principles and design applications Apply advanced heat transfer concepts to your chemical, petrochemical, and refining equipment designs using the detailed information contained in this comprehensive volume. Filled with valuable graphs, tables, and charts, Heat Transfer in Process Engineering covers the latest analytical and empirical methods for use with current industry software. Select heat transfer equipment, make better use of design software, calculate heat transfer coefficients, troubleshoot your heat transfer process, and comply with design and construction standards. Heat Transfer in Process Engineering allows you to: Review heat transfer principles with a direct focus on process equipment design Design, rate, and specify shell and tube, plate, and hairpin heat exchangers Design, rate, and specify air coolers with plain or finned tubes Design, rate, and specify different types of condensers with tube or shellside condensation for pure fluids or multicomponent mixtures Understand the principles and correlations of boiling heat transfer, with their limits on and applications to different types of reboiler design Apply correlations for fired heater ratings, for radiant and convective zones, and calculate fuel efficiency Obtain a set of useful Excel worksheets for process heat transfer calculations

Includes universities, colleges at the 4-year and 2-year or community and junior college levels, technical institutes, and occupationally-oriented vocational schools in the United States and its outlying areas.

Originally published in 1926 [i.e. 1927] under title: Steel construction; title of 8th ed.: Manual of steel construction.

Written in plain English, Webster's New World Law Dictionary is much easier to understand than typical legal documents. * Clear, concise, and accurate definitions of more than 4,000 legal terms * Coverage of terms from all areas of law, including criminal law, contracts, evidence, constitutional law, property law, and torts * Common abbreviations, foreign words and phrases, and a full copy of the United States Constitution, including the Bill of Rights and all subsequent amendments In addition to those in the legal field, this desk reference is invaluable to journalists, researchers, lay people dealing with legal issues, and even those who simply want to use legal terms correctly in order to make their points more convincingly.

This manual guides Navy areas in developing and implementing their Spill Prevention, Control, and Countermeasure plan (SPCC Plan) for oil and hazardous substances (HS). This document is required by the Environmental Protection Agency (EPA) Part 40 of the Code of Federal Regulation, Section 112 (20 CFR 112), the Oil Pollution Prevention regulation, and OPNAVINST 5090.1B, for oil area meeting the criteria in 40 CFR 112. Spill control measures are required for hazardous waste (HW) storage areas regulated by either 40 CFR 264 or 40 CFR 265. Additionally, some spill control measures are required for underground storage tanks (UST) regulated by 40 CFR 280. HW storage areas, not specifically regulated by the above referenced regulations, do not have regulated spill control requirements; however, it is considered best engineering practice to have spill control measures at all HS storage areas. Therefore, it is recommended that all HS storage areas be included in Navy SPCC plans. For overseas locations please refer to OEBGD/FGS criteria for spill prevention guidance. This book is for people who want to build their own domes. It's also for those who are interested in domes and want to learn more about them.

Since the establishment of the conductive properties of intrinsic conductive polymers, a huge variety of basic and applied research has been carried out, involving different polymers, copolymers, blends, mixtures and composites. Thus, fundamental understanding of physical and chemical properties of these materials has been sought, while the applied aspects have advanced very rapidly, crossing the boundaries between disciplines. Today, the applications of conducting polymers in various fields such as neuroscience, nanotechnology and green chemistry, are easily found. This development is dynamic and it needs to be updated and hence the motivation for the set of results presented in this book; which provides information about the development of fundamentals, and about some applications of conductive polymers.

The first and only comprehensive guide to best practices in winter road operations Winter maintenance operations are essential to ensure the safety, mobility, and productivity of transportation systems, especially in cold-weather climates, and responsible agencies are continually challenged to provide a high level of service in a fiscally and environmentally responsible manner. Sustainable Winter Road Operations bridges the knowledge gaps, providing the first up-to-date, authoritative, single-source overview and guide to best practices in winter road operations that considers the triple bottom line of sustainability. With contributions from experts in the field from around the world, this book takes a holistic approach to the subject. The authors address the many negative impacts on regional economies and the environment of poorly planned and inadequate winter road operations, and they make a strong case for the myriad benefits of environmentally sustainable concepts and practices. Best practice applications of materials, processes, equipment, and associated technologies and how they can improve the effectiveness and efficiency of winter operations, optimize materials usage, and minimize cost, corrosion, and environmental impacts are all covered in depth. Provides the first up-to-date, authoritative and comprehensive overview of best practices in sustainable winter road operations currently in use around the world Covers materials, processes, equipment, and associated technologies for sustainable winter road operations Brings together contributions by an international all-star team of experts with extensive experience in designing, implementing, and managing sustainable winter road operations Designed to bring professionals involved in

transportation and highway maintenance and control up to speed with current best practice Sustainable Winter Road Operations is essential reading for maintenance professionals dealing with snow and ice control operations on highways, motorways and local roads. It is a valuable source of information and guidance for decision makers, researchers, and engineers in transportation engineering involved in transportation and highway maintenance. And it is an ideal textbook for advanced-level courses in transportation engineering.

Vols. for 1970-71 includes manufacturers' catalogs.

The main goal of this book is to present the methods used to calculate the most important parameters for ropes, and to explain how they are applied on the basis of numerous sample calculations. The book, based on the most important chapters of the German book DRAHTSEILE, has been updated to reflect the latest developments, with the new edition especially focusing on computational methods for wire ropes. Many new calculations and examples have also been added to facilitate the dimensioning and calculation of mechanical characteristics of wire ropes. This book offers a valuable resource for all those working with wire ropes, including construction engineers, operators and supervisors of machines and installations involving wire ropes.

Official GazetteA Profile on G.I. SheetsPrinciples of Food SanitationSpringer
Science & Business Media

This volume reveals the behaviour and design of cold-formed steel structures, connections and systems. It describes the AISI Specification for the Design of Cold-Formed Steel Structural Members published in July 2000, which governs the design of all cold-formed steel frames, including roof, wall and racking systems, and cold-formed steel residential construction in the USA. The text offers worked examples which can be programmed using MATHCAD or EXCEL. Carrageenan is a gelling agent extracted from red seaweeds and it has multiple applications in the food processing and other industries. Increasing demand for carrageenan has led to rapid expansion of carrageenan seaweed (primarily Kappaphycus and Eucheuma) farming in tropical areas. This expansion is expected to continue, but many issues need to be addressed to enable the sector to develop its full potential in contributing towards sustainable livelihoods, human development and social well-being. Including six country case studies and a global synthesis, this document provides a comprehensive and balanced assessment of the economic, social and governance dimensions of carrageenan seaweed farming. Information and insights provided by this document should facilitate evidence-based decision-makings in both the public and private sectors. At present environmental chemistry is becoming an increasingly popular subject in both under graduate and graduated education in the whole World and especially in all Asian countries. Different courses in ecology, chemistry, environmental science, public health, geography, biology, and environmental engineering all include this subject in their curriculum. Many textbooks have appeared in recent years aiming to fulfill these requirements; however, most of

these books operate mainly with examples from developed countries of Europe, USA and Canada. Taking into account the geographic boundaries of environmental pollution that is especially pronounced in Asia and the specific peculiarities of pollution in developing countries, this textbook is supposed to close the gap by providing regionally oriented knowledge in basic and applied environmental chemistry.

Structural Steel Design, Third Edition is a simple, practical, and concise guide to structural steel design – using the Load and Resistance Factor Design (LRFD) and the Allowable Strength Design (ASD) methods -- that equips the reader with the necessary skills for designing real-world structures. Civil, structural, and architectural engineering students intending to pursue careers in structural design and consulting engineering, and practicing structural engineers will find the text useful because of the holistic, project-based learning approach that bridges the gap between engineering education and professional practice. The design of each building component is presented in a way such that the reader can see how each element fits into the entire building design and construction process. Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented. Features: - Includes updated content/example exercises that conform to the current codes (ASCE 7, ANSI/AISC 360-16, and IBC) - Adds coverage to ASD and examples with ASD to parallel those that are done LRFD - Follows a holistic approach to structural steel design that considers the design of individual steel framing members in the context of a complete structure.

Overview; Consumer demand for rice quality; Rice quality at the retail level; Rice grain quality and the marketing system; Rice grain quality in selected international markets. On the First Edition: "The book is a success in providing a comprehensive introduction to the use of aluminum structures . . . contains lots of useful information." —Materials & Manufacturing Processes "A must for the aluminum engineer. The authors are to be commended for their painstaking work." —Light Metal Age Technical guidance and inspiration for designing aluminum structures Aluminum Structures, Second Edition demonstrates how strong, lightweight, corrosion-resistant aluminum opens up a whole new world of design possibilities for engineering and architecture professionals. Keyed to the revised Specification for Aluminum Structures of the 2000 edition of the Aluminum Design Manual, it provides quick look-up tables for design calculations; examples of recently built aluminum structures—from buildings to bridges; and a comparison of aluminum to other structural materials, particularly steel. Topics covered include: Structural properties of aluminum alloys Aluminum structural design for beams, columns, and tension members Extruding and other fabrication techniques Welding and mechanical connections Aluminum structural systems, including space frames, composite members, and plate structures Inspection and testing Load and resistance factor design Recent developments in aluminum structures

This authoritative resource consolidates comprehensive information on the analysis and design of water supply systems into one practical, hands-on reference. After an introduction and explanation of the basic principles of pipe flows, it covers topics ranging from cost considerations to optimal water distribution design to various types of systems to writing water distribution programs. With numerous examples and closed-form design equations, this is the definitive reference for civil and environmental

engineers, water supply managers and planners, and postgraduate students. Durability of Building Materials and Components provides a collection of recent research works to contribute to the systematization and dissemination of knowledge related to the long-term performance and durability of construction and, simultaneously, to show the most recent advances in this domain. It includes a set of new developments in the field of durability, service life prediction methodologies, the durability approach for historical and old buildings, asset and maintenance management and on the durability of materials, systems and components. The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues.

Under the direction of John Enderle, Susan Blanchard and Joe Bronzino, leaders in the field have contributed chapters on the most relevant subjects for biomedical engineering students. These chapters coincide with courses offered in all biomedical engineering programs so that it can be used at different levels for a variety of courses of this evolving field. Introduction to Biomedical Engineering, Second Edition provides a historical perspective of the major developments in the biomedical field. Also contained within are the fundamental principles underlying biomedical engineering design, analysis, and modeling procedures. The numerous examples, drill problems and exercises are used to reinforce concepts and develop problem-solving skills making this book an invaluable tool for all biomedical students and engineers. New to this edition: Computational Biology, Medical Imaging, Genomics and Bioinformatics. * 60% update from first edition to reflect the developing field of biomedical engineering * New chapters on Computational Biology, Medical Imaging, Genomics, and Bioinformatics * Companion site: <http://intro-bme-book.bme.uconn.edu/> * MATLAB and SIMULINK software used throughout to model and simulate dynamic systems * Numerous self-study homework problems and thorough cross-referencing for easy use

This collection gives broad and up-to-date results in the research and development of materials characterization and processing. Topics covered include characterization methods, ferrous materials, non-ferrous materials, minerals, ceramics, polymer and composites, powders, extraction, microstructure, mechanical behavior, processing, corrosion, welding, solidification, magnetic, electronic, environmental, nano-materials, and advanced materials The book explores scientific processes to characterize materials using modern technologies, and focuses on the interrelationships and interdependence among processing, structure, properties, and performance of materials.

Fully-updated new edition of successful textbook introducing concepts of pollution, toxicology and risk assessment.

Large volume food processing and preparation operations have increased the need for improved sanitary practices from processing to consumption. This trend presents a challenge to every employee in the food processing and food preparation industry. Sanitation is an applied science for the attainment of hygienic conditions. Because of increased emphasis on food safety, sanitation is receiving increased attention from those in the food industry. Traditionally, inexperienced employees with few skills who have received little or no training have been delegated sanitation duties. Yet sanitation employees require intensive training. In the past, these employees, including sanitation program managers, have had only limited access to material on this subject. Technical

information has been confined primarily to a limited number of training manuals provided by regulatory agencies, industry and association manuals, and recommendations from equipment and cleaning compound firms. Most of this material lacks specific information related to the selection of appropriate cleaning methods, equipment, compounds, and sanitizers for maintaining hygienic conditions in food processing and preparation facilities. The purpose of this text is to provide sanitation information needed to ensure hygienic practices. Sanitation is a broad subject; thus, principles related to contamination, cleaning compounds, sanitizers, and cleaning equipment, and specific directions for applying these principles to attain hygienic conditions in food processing and food preparation are discussed. The discussion starts with the importance of sanitation and also includes regulatory requirements and voluntary sanitation programs including additional and updated information on Hazard Analysis Critical Control Points (HACCP).

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