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BIM Handbook Pearson Education India

Since many processes in the food industry involve fluid flow and heat and mass transfer, Computational Fluid Dynamics (CFD) provides a powerful early-stage simulation tool for gaining a qualitative and quantitative assessment of the performance of food processing, allowing engineers to test concepts all the way through the development of a process or system. Published in 2007, the first edition was the first book to address the use of CFD in food processing applications, and its aims were to present a comprehensive review of CFD applications for the food industry and pinpoint the research and development trends in the development of the technology; to provide the engineer and technologist working in research, development, and operations in the food industry with critical, comprehensive, and readily accessible information on the art and science of CFD; and to serve as an essential reference source to undergraduate and postgraduate students and researchers in universities and research institutions. This will continue to be the purpose of this second edition. In the second edition, in order to reflect the most recent research and development trends in the technology, only a few original chapters are updated with the latest developments. Therefore, this new edition mostly contains new chapters covering the analysis and optimization of cold chain facilities, simulation of thermal processing and modeling of heat exchangers, and CFD applications in other food processes.

Edible Insects M.E. Sharpe

The processing of food is no longer simple or straightforward, but is now a highly inter-disciplinary science. A number of new techniques have developed to extend shelf-life, minimize risk, protect the environment, and improve functional, sensory, and nutritional properties. The ever-increasing number of food products and preservation techniques cr

Handbook of Poultry Science and Technology, Secondary Processing CRC Press

An important consideration for energy-efficient buildings is their primary energy requirements over the entire life cycle. How to determine this? What integrative factors influence the performance of a healthy and sustainable building? This, while it may be important for clients and architects to know, is frequently not very transparent. This book has been written to assist with clarifying target criteria and expanding horizons when it comes to ecological buildings. It is meant as a handbook and source of reference for clients, architects, planners and building operators, to provide them with pertinent information about their design, construction and operation: how to do this in the most energy-efficient and economical manner? Also, there is feedback and documentation about prominent buildings like the Hamburg Dockland or the Landesbank Baden-Wuerttemberg in Stuttgart. They provide excellent architectural examples for detailed construction and design solutions. Further, there are insightful interviews with architects and clients about many important buildings, which help turn this book into an integrated source of reference for sustainable architecture. - A Guideline for Planning, Construction and Operation of sustainable Buildings - A source of reference for clients, architects, planners and building operators - Innovative architectural examples with sustainable concepts and design

Mechanics of Pneumatic Tires Addison-Wesley Longman

When the First Edition of this book was written in 1951, the gas turbine was just becoming established as a powerplant for military aircraft. It took another decade before the gas turbine was introduced to civil aircraft, and this market developed so rapidly that the passenger liner was rendered obsolete. Other markets like naval propulsion, pipeline compression and electrical power applications grew steadily. In recent years the gas turbine, in combination with the steam turbine, has played an ever-increasing role in power generation. Despite the rapid advances in both output and efficiency, the basic theory of the gas turbine has remained unchanged. The layout of this new edition is broadly similar to the original, but greatly expanded and updated, comprising an outline of the basic theory, aerodynamic design of

individual components, and the prediction of off-design performance. The addition of a chapter devoted to the mechanical design of gas turbines greatly enhances the scope of the book. Descriptions of engine developments and current markets make this book useful to both students and practising engineers.

Geothermal Energy Springer Science & Business Media

"Full of information that most ENT surgeons have little experience with...great for exam prep or for a quick read before a presentation...I would recommend that ENT trainees buy this book" Journal of Laranology, March 2012

The Macintosh Font Book CRC Press

This classic in forensic anthropology has been thoroughly updated and greatly expanded for the new Third Edition. The result presents the state of the medicolegal art of investigating human skeletal remains. The third edition follows more than 25 years after the second edition. During this time, considerable changes occurred in the field and Forensic Anthropology became a distinct specialty in its own right. Included in the book are detailed discussions on crime scene investigation, including excavation techniques, time interval since death, human or animal remains, mass graves, and preparation of remains. Existing chapters, all dramatically revised, bring readers in line with the current concepts of skeletal age; determination of sex; assessment of ancestry; calculation of stature; factors of individualization; superimposition and restoration of physiognomy. There is also a section on dental analysis examining such topics as dental anatomy, nomenclature, estimation of age in subadults and adults, determination of sex and ancestry, and pathological conditions. New additions are chapters on skeletal pathology and trauma assessment. A new chapter has also been added on "Forensic Anthropology of the Living." Although all of the sections of the book have been updated significantly, the authors have retained some sense of history to recognize the many pioneers that have shaped the discipline. The text will assist forensic anthropologists and forensic pathologists who have to analyze skeletons found in forensic contexts. This book has a global perspective in order to make it usable to practitioners across the world. Where possible, short case studies have been added to illustrate the diverse aspects of the work.

Applying the ASME Codes John Wiley & Sons

Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Although the majority of consumed insects are gathered in forest habitats, mass-rearing systems are being developed in many countries. Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and developed countries. It shows the many traditional and potential new uses of insects for direct human consumption and the opportunities for and constraints to farming them for food and feed. It examines the body of research on issues such as insect nutrition and food safety, the use of insects as animal feed, and the processing and preservation of insects and their products. It highlights the need to develop a regulatory framework to govern the use of insects for food security. And it presents case studies and examples from around the world.

Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. To fully realise this potential, much work needs to be done by a wide range of stakeholders. This publication will boost awareness of the many valuable

roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

Operations and Maintenance Manual for Energy Management CRC Press

A comprehensive reference for the poultry industry—Volume 2 describes poultry processing from raw meat to final retail products With an unparalleled level of coverage, the Handbook of Poultry Science and Technology provides an up-to-date and comprehensive reference on poultry processing. Volume 2: Secondary Processing covers processing poultry from raw meat to uncooked, cooked or semi-cooked retail products. It includes the scientific, technical, and engineering principles of poultry processing, methods and product categories, product manufacturing and attributes, and sanitation and safety.

Volume 2: Secondary Processing is divided into seven parts: Secondary processing of poultry products—an overview Methods in processing poultry products—includes emulsions and gelations; breasting and battering; mechanical deboning; marination, cooking, and curing; and non-meat ingredients Product manufacturing—includes canned poultry meat, turkey bacon and sausage, breaded product (nuggets), paste product (pâté), poultry ham, luncheon meat, processed functional egg products, and special dietary products for the elderly, the ill, children, and infants Product quality and sensory attributes—includes texture and tenderness, protein and poultry meat quality, flavors, color, handling refrigerated poultry, and more Engineering principles, operations, and equipment—includes processing equipment, thermal processing, packaging, and more Contaminants, pathogens, analysis, and quality assurance—includes microbial ecology and spoilage in poultry and poultry products; campylobacter; microbiology of ready-to-eat poultry products; and chemical and microbial analysis Safety systems in the United States—includes U.S. sanitation requirements, HACCP, U.S. enforcement tools and mechanisms

Water Reuse Newnes

Protecting the reproductive potential of young patients undergoing cancer therapy is increasingly important. With modern treatment protocols, 80% of patients can be expected to survive. It has been estimated that up to one in 250 young adults will be a survivor of childhood cancer in the future; infertility, however, may be a consequence. As a wide range of fertility preservation methods are increasingly offered by clinicians, this systematic and comprehensive textbook dealing with the cryobiology, technology and clinical approach to this therapy will be essential reading to infertility specialists, embryologists, oncologists, cryobiologists, ObGyns, andrologists, and urologists with an interest in fertility preservation. Fertility Cryopreservation reviews all the techniques of this increasingly important field within reproductive medicine. It covers the basic principles of pertinent cryobiology, and contains major sections on the different therapies available, written by international specialists combining experience from both academic centers and commercial industries.

Reflow Soldering Processes Cambridge University Press

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently

passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems

Computational Fluid Dynamics in Food Processing National Academies Press

Offers a collection of chapters featuring ASME Piping and Pressure Vessel Code applications. This volume enables readers to learn to solve various mechanical problems, including: Pipe Stress and Strain; Structural Supports; Pressure Vessels; Jacketed Pipes; and Bellows-Type Expansion Joints.

Green Building American Society of Mechanical Engineers

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Steps to Writing Well with Additional Readings John Wiley & Sons

Instant answers to your toughest questions on piping components and systems! It's impossible to know all the answers when piping questions are on the table - the field is just too broad. That's why even the most experienced engineers turn to Piping Handbook, edited by Mohinder L. Nayyar, with contribution from top experts in the field. The Handbook's 43 chapters--14 of them new to this edition--and 9 new appendices provide, in one place, everything you need to work with any type of

piping, in any type of piping system: design layout selection of materials technologies for water remediation. The advanced oxidation processes fabrication and components operation installation maintenance This world-class reference is packed with a comprehensive array of analytical tools, and illustrated with fully-worked-out examples and case histories. Thoroughly updated, this seventh edition features revised and new information on design practices, materials, practical applications and industry codes and standards--plus every calculation you need to do the job.

Gas Turbine Engineering Handbook Routledge

This publication reports on the results of a coordinated research project on advances in high temperature gas cooled reactor (HTGR) fuel technology and describes the findings of research activities on coated particle developments. These comprise two specific benchmark exercises with the application of HTGR fuel performance and fission product release codes, which helped compare the quality and validity of the computer models against experimental data. The project participants also examined techniques for fuel characterization and advanced quality assessment/quality control. The key exercise included a round-robin experimental study on the measurements of fuel kernel and particle coating properties of recent Korean, South African and US coated particle productions applying the respective qualification measures of each participating Member State. The summary report documents the results and conclusions achieved by the project and underlines the added value to contemporary knowledge on HTGR fuel.

Handbook of Brewing Springer Science & Business Media

Responding to new technologies and the federal mandates inspired by these technologies, this manual guides facility managers and engineers in the most efficient management of energy.

Practical Fermentation Technology National Academies Press

Mineral scale deposits, corrosion, suspended matter, and microbiological growth are factors that must be controlled in industrial water systems. Research on understanding the mechanisms of these problems has attracted considerable attention in the past three decades as has progress concerning water treatment additives to ameliorate these concerns.

The Elasmobranch Husbandry Manual IWA Publishing

With this collection of chapters written in a friendly style, you enjoy the essential benefits of instruction by a personal mentor who explains "why" and "how" while teaching potentially dangerous lessons in physics and engineering design. Spared the embarrassment of painful mistakes, you gain practical knowledge from frank, colorful cases and learn to solve mechanical problems related to hydraulics, pipe flow, and industrial HVAC and utility systems. Water and Steam Hammer Phenomena - Gravity Flow of Liquids in Pipes - Siphon Seals and Water Legs - Regulating Steam Pressure Drop - Industrial Risk Insurers' Fuel Gas Burner Piping Valve Train - Controlling Differential Air Pressure of a Room with Respect to its Surroundings - Water Chiller Decoupled Primary-Secondary Loops - Pressure Drop Calculations of Incompressible Fluid Flow in Piping and Ducts - Water Chillers in Turndown - Hydraulic Loops - Radiation Heat Transfer - Thermal Insulation

Management of Legionella in Water Systems McGraw Hill Professional

Advanced Oxidation Processes (AOPs) rely on the efficient generation of reactive radical species and are increasingly attractive options for water remediation from a wide variety of organic micropollutants of human health and/or environmental concern. Advanced Oxidation Processes for Water Treatment covers the key advanced oxidation processes developed for chemical contaminant destruction in polluted water sources, some of which have been implemented successfully at water treatment plants around the world. The book is structured in two sections; the first part is dedicated to the most relevant AOPs, whereas the topics covered in the second section include the photochemistry of chemical contaminants in the aquatic environment, advanced water treatment for water reuse, implementation of advanced treatment processes for drinking water production at a state-of-the art water treatment plant in Europe, advanced treatment of municipal and industrial wastewater, and green

discussed in the book cover the following aspects: - Process principles including the most recent scientific findings and interpretation. - Classes of compounds suitable for AOP treatment and examples of reaction mechanisms. - Chemical and photochemical degradation kinetics and modelling. - Water quality impact on process performance and practical considerations on process parameter selection criteria. - Process limitations and byproduct formation and strategies to mitigate any potential adverse effects on the treated water quality. - AOP equipment design and economics considerations. - Research studies and outcomes. - Case studies relevant to process implementation to water treatment. - Commercial applications. - Future research needs. Advanced Oxidation Processes for Water Treatment presents the most recent scientific and technological achievements in process understanding and implementation, and addresses to anyone interested in water remediation, including water industry professionals, consulting engineers, regulators, academics, students. Editor: Mihaela I. Stefan - Trojan Technologies - Canada

Automotive Antifreezes American Society of Mechanical Engineers

Geothermal energy refers to the heat contained within the Earth that generates geological phenomena on a planetary scale. Today, this term is often associated with man's efforts to tap into this vast energy source. Geothermal Energy: utilization and technology is a detailed reference text, describing the various methods and technologies used to exploit the earth's heat. Beginning with an overview of geothermal energy and the state of the art, leading international experts in the field cover the main applications of geothermal energy, including: electricity generation space and district heating space cooling greenhouse heating aquaculture industrial applications The final third of the book focuses upon environmental impact and economic, financial and legal considerations, providing a comprehensive review of these topics. Each chapter is written by a different author, but to a set style, beginning with aims and objectives and ending with references, self-assessment questions and answers. Case studies are included throughout. Whilst written primarily for professionals and students interested in learning more about geothermal energy, the book also offers those new to the field and the general geothermal community an opportunity to understand and review the potential of this exciting alternative energy source. Published with UNESCO

Handbook of Food Preservation Elsevier

Focused on technological innovations in the field of electronics packaging and production, this book elucidates the changes in reflow soldering processes, its impact on defect mechanisms, and, accordingly, the troubleshooting techniques during these processes in a variety of board types. Geared toward electronics manufacturing process engineers, design engineers, as well as students in process engineering classes, Reflow Soldering Processes and Troubleshooting will be a strong contender in the continuing skill development market for manufacturing personnel. Written using a very practical, hands-on approach, Reflow Soldering Processes and Troubleshooting provides the means for engineers to increase their understanding of the principles of soldering, flux, and solder paste technology. The author facilitates learning about other essential topics, such as area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and rework process,--and provides an increased understanding of the reliability failure modes of soldered SMT components. With cost effectiveness foremost in mind, this book is designed to troubleshoot errors or problems before boards go into the manufacturing process, saving time and money on the front end. The author's vast expertise and knowledge ensure that coverage of topics is expertly researched, written, and organized to best meet the needs of manufacturing process engineers, students,

practitioners, and anyone with a desire to learn more about reflow soldering processes. Comprehensive and indispensable, this book will prove a perfect training and reference tool that readers will find invaluable. Provides engineers the cutting-edge technology in a rapidly changing field Offers in-depth coverage of the principles of soldering, flux, solder paste technology, area array packages--including BGA, CSP, and FC designs, bumping technique, assembly, and the rework process