
Handbook Of Thermal Insulation Design Economics For Pipes And Equipment

Applied Process Design for Chemical and Petrochemical Plants:
 An Integrated Approach to Energy, Health and Operational Performance
 Transamerica Delaval Engineering Handbook
 A Design Handbook
 Thermal Insulation Handbook
 Environmental Strategies for Schematic Design
 Exterior Insulation and Finish System Design Handbook
 For Architects, Engineers, and Contractors
 Ludwig's Applied Process Design for Chemical and Petrochemical Plants
 Handbook of Metallurgical Process Design
 CRC Handbook of Thermal Engineering, Second Edition
 Planning and design handbook on precast building structures
 A Design Handbook for Solar Combisystems
 National Design Handbook Prototype on Passive Solar Heating and Natural Cooling of Buildings
 A Guide to Good Practice
 Roof Cooling Techniques
 Environmental Handbook for Building and Civil Engineering Projects: Design and specification
 Green Building Handbook: Volume 2
 The Housing Design Handbook
 The Green Studio Handbook
 Roof Cooling Techniques
 Definitive Guide to Manufacturing, Properties, Processing, Applications and Markets Set
 Handbook of Industrial Polyethylene and Technology
 Thermal Insulation Building Guide
 Handbook of Thermal Insulation Design Economics for Pipes and Equipment
 Handbooks and Tables in Science and Technology
 Modern Materials
 Insulation Handbook
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 A Guide to Building Products and Their Impact on the Environment
 An Integrated Approach to Energy, Health and Operational Performance
 A Handbook of Sustainable Building Design and Engineering

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DEREK LILLIANNA

Applied Process Design for Chemical and Petrochemical Plants: FIB - Féd. Int. du Béton

This book provides a simplified and practical approach to designing with plastics that fundamentally relates to the load, temperature, time, and environment subjected to a product. It will provide the basic behaviors in what to consider when designing plastic products to meet performance and cost requirements. Important aspects are presented such as understanding the advantages of different shapes and how they influence designs. Information is concise, comprehensive, and practical. Review includes designing with plastics based on material and process behaviors. As designing with any materials (plastic, steel, aluminum, wood, etc.) it is important to know their behaviors in order to maximize product performance-to-cost efficiency. Examples of many different designed products are reviewed. They range from toys to medical devices to cars to boats to underwater devices to containers to springs to pipes to buildings to aircraft to space craft. The reader's product to be designed can directly or indirectly be related to product design reviews in the book. Important are behaviors associated and interrelated with plastic materials (thermoplastics, thermosets, elastomers, reinforced plastics, etc.) and fabricating processes (extrusion, injection molding, blow molding, forming, foaming, rotational molding, etc.). They are presented so that the technical or non-technical reader can readily understand the interrelationships.

An Integrated Approach to Energy, Health and Operational Performance Gulf Professional Publishing

This third edition of Applied Process Design for Chemical and Petrochemical Plants, Volume 3, is completely revised and updated throughout to make this standard reference more valuable than ever. It has been expanded by more than 200 pages to include the latest technological and process developments in heat transfer, refrigeration, compression and compression surge drums, and mechanical drivers. Like other volumes in this classic series, this one emphasizes how to apply techniques of process design and how to interpret results into mechanical equipment details. It focuses on the applied aspects of chemical engineering design to aid the design and/or project engineers in rating process requirements, specifying for purchasing purposes, and interpreting and selecting the mechanical equipment needed to satisfy the process functions. Process chemical engineering and mechanical hydraulics are included in the design procedures. Includes updated information that allows for efficiency and accuracy in daily tasks and operations Part of a classic series in the industry

Transamerica Delaval Engineering Handbook Handbook of Thermal Insulation Design Economics for Pipes and Equipment

This key handbook provides a detailed reference for environmentally concerned purchasers of building products, and complements the Green Building Handbook Vol 1. Following the format of the original, this book discusses current issues in green building before moving on to consider eight building component types: fencing products, flat roofing membranes, glazing products, electrical wiring, adhesives, straw bale building, interior decoration and indoor air quality and ventilation. Invaluable for the specifier, this companion handbook will be useful to all those interested in finding greener ways of

designing and making buildings.

A Design Handbook Springer Science & Business Media

The second edition of this authoritative textbook equips students with the tools they will need to tackle the challenges of sustainable building design and engineering. The book looks at how to design, engineer and monitor energy efficient buildings, how to adapt buildings to climate change, and how to make buildings healthy, comfortable and secure. New material for this edition includes sections on environmental masterplanning, renewable technologies, retrofitting, passive house design, thermal comfort and indoor air quality. With chapters and case studies from a range of international, interdisciplinary authors, the book is essential reading for students and professionals in building engineering, environmental design, construction and architecture.

Thermal Insulation Handbook McGraw-Hill Professional Publishing

Significantly updated in reference to the latest construction standards and new building types Sustainable design integrated into chapters throughout Over half of the entire book has now been updated since 2015 Over 100,000 copies sold to successive generations of architects and designers This book belongs in every design office. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook is the unique reference for solving everyday planning problems.

Environmental Strategies for Schematic Design Krieger Publishing Company

Active solar systems for air heating are a straightforward yet effective way of using solar energy for space heating and tempering ventilation air. They offer some unique advantages over solar water systems, can offer improved comfort and fuller use of solar gains than passive solar systems and are a natural fit with mechanically ventilated buildings. They can be economical, with short pay-back periods and can act not only as space heating or ventilation air heating but also for water pre-heating, sunshading, electricity generation (with hybrid photovoltaic systems) and can help induce cooling. This design handbook takes architects and building engineers through the process of designing and selecting an active solar system from the six types presented, optimizing the system using nomograms and curves, and finally dimensioning the components of the system. Tips are offered regarding the construction and how to avoid problems. The book will provide essential design information for all architects, building engineers and other building design professionals and all those concerned to reduce the environmental impact of buildings.

Exterior Insulation and Finish System Design Handbook Greenwood Publishing Group

In 1994 fib Commission 6: Prefabrication edited a successful Planning and Design Handbook that ran to approximately 45,000 copies and was published in Spanish and German. Nearly 20 years later Bulletin 74 brings that first publication up to date. It offers a synthesis of the latest structural design knowledge about precast building structures against the background of 21st century technological innovations in materials, production and construction. With it, we hope to help architects and engineers achieve a full understanding of precast concrete building structures, the possibilities they offer and their specific design philosophy. It was principally written for non-seismic structures. The handbook contains eleven chapters, each dealing with a specific aspect of precast building structures. The first chapter of the handbook highlights best practice opportunities that will enable architects, design engineers and contractors to work together towards finding efficient solutions, which is something unique to precast concrete buildings. The second chapter offers basic design recommendations that take into account the possibilities, restrictions and advantages of precast concrete, along with its detailing, manufacture, transport, erection and serviceability stages. Chapter three describes the precast solutions for the most common types of buildings such as offices, sports stadiums, residential buildings, hotels, industrial warehouses and car parks. Different application possibilities are explored to teach us which types of precast units are commonly used in all those situations. Chapter four covers the basic design principles and systems related to stability. Precast concrete structures should be designed according to a specific stability concept, unlike cast in-situ structures. Chapter five discusses structural connections. Chapters six to nine address the four most commonly used systems or subsystems of precast concrete in buildings, namely, portal and skeletal structures, wall-frame structures, floor and roof structures and architectural concrete facades. In chapter ten the design and detailing of a number of specific construction details in precast elements are discussed, for example, supports, corbels, openings and cutouts in the units, special features related to the detailing of the reinforcement, and so forth. Chapter eleven gives guidelines for the fire design of precast concrete structures. The handbook concludes with a list of references to good literature on precast concrete construction.

For Architects, Engineers, and Contractors CRC Press

This handbook provides practical advice and guidance on the environmental issues that are likely to be encountered at each stage of a building or civil engineering project.

Ludwig's Applied Process Design for Chemical and Petrochemical Plants Krieger Publishing Company

Plan, implement, and troubleshoot any type of insulation application Invaluable to anyone who wants an in-depth understanding of thermal insulation, *Insulation Handbook*, by Richard T. Bynum and Daniel L. Rubino, is a thorough guide to all the important methods, materials, and concepts associated with it, along with sound problem-solving advice. You'll slash construction time and costs while maximizing energy efficiency with this "A-Z" overview of residential installation. The authors, experts with hands-on construction and design experience, provide the rock-solid help you need to: Evaluate the pros and cons of today's most commonly used materials -- including loose fill, batts, blankets, spray-on, and boards -- as well as cutting-edge technologies still under development Decide upon the best insulation strategy Work within the framework of codes, standards, and regulations Achieve optimum thermal comfort in any home Understand innovative insulation systems such as ICFs (insulated concrete formwork), SIPs (structured insulated panels) and drainable-type EIFs Prevent damages caused by moisture accumulation Solve the problems presented by asbestos and other dangerous materials Obtain information from manufacturers and suppliers More!

Handbook of Metallurgical Process Design Thomas Telford

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

CRC Handbook of Thermal Engineering, Second Edition John Wiley & Sons

This handbook provides an exhaustive description of polyethylene. The 50+ chapters are written by some of the most experienced and prominent authors in the field, providing a truly unique view of polyethylene. The book starts with a historical discussion on how low density polyethylene was discovered and how it provided unique opportunities in the early days. New catalysts are presented and show how they created an expansion in available products including linear low density polyethylene, high density polyethylene, copolymers, and polyethylene produced from metallocene catalysts. With these different catalysts systems a wide range of structures are possible with an equally wide range of physical properties. Numerous types of additives are presented that include additives for the protection of the resin from the environment and processing, fillers, processing aids, anti-fogging agents, pigments, and flame retardants. Common processing methods including extrusion, blown film, cast film, injection molding, and thermoforming are presented along with some of the more specialized processing techniques such as rotational molding, fiber processing, pipe extrusion, reactive extrusion, wire and cable, and foaming processes. The business of polyethylene including markets, world capacity, and future prospects are detailed. This handbook provides the most current and complete technology assessments and business practices for polyethylene resins.

Planning and design handbook on precast building structures Routledge

Handbook of Thermal Insulation Design Economics for Pipes and Equipment Krieger Publishing Company Handbook of Thermal Insulation Design

Economics for Pipes and Equipment Thermal Insulation Handbook for the Oil, Gas, and Petrochemical Industries Gulf Professional Publishing

A Design Handbook for Solar Combisystems Earthscan

How well have architects succeeded in building housing and what lessons can be learned from their triumphs and failures? The Housing Design Handbook will give you a complete understanding of what makes successful housing design. Through the analysis of work by Levitt Bernstein and a wide range of other UK practices, it illustrates good design principles and accumulates a wealth of knowledge in a readily accessible format for the first time. Written by a recognised authority in the field, the book provides: a range of cases to illustrate the way that different issues in the design of housing have been approached and with what degree of success a review of the place of housing as the most significant built form in the urban landscape an understanding of the importance of achieving a sense of place as the bedrock of social continuity a discussion of how flexibility might be achieved in order to accommodate future changes in housing need, if wholesale demolition and replacement is to be avoided more recent examples which explore why certain social groupings are more resistant to design innovation than others and why there has been such an architectural breakthrough in market led, higher density urban living. David Levitt examines the ideas behind the schemes and assesses how successful and sustainable those ideas have proved, making this an essential reference for professionals and students practicing and studying the design and commissioning of housing.

National Design Handbook Prototype on Passive Solar Heating and Natural Cooling of Buildings Routledge

For some time there has been a strong need in the plastic and related industries for a detailed, practical book on designing with plastics and composites (reinforced plastics). This one-source book meets this criterion by clearly explaining all aspects of designing with plastics, as can be seen from the Table of Contents and Index. It provides information on what is ahead as well as today's technology. It explains how to interrelate the process of meeting design performance requirements with that of selecting the proper plastic and manufacturing process to make a product at the lowest cost. This book has been prepared with an awareness that its usefulness will depend greatly upon its simplicity. The overall guiding premise has therefore been to provide all essential information. Each chapter is organized to best present a methodology for designing with plastics and composites. of industrial designers, whether in engineering This book will prove useful to all types or involved in products, molds, dies or equipment, and to people in new-product ventures, research and development, marketing, purchasing, and management who are involved with such different products as appliances, the building industry, autos, boats, electronics, furniture, medical, recreation, space vehicles, and others. In this handbook the basic essentials of the properties and processing behaviors of plastics are presented in a single source intended to be one the user will want to keep within easy reach.

A Guide to Good Practice Routledge

Gives a foundation to the four principle facets of thermal design: heat transfer analysis, materials performance, heating and cooling technology, and instrumentation and control. The focus is on providing practical thermal design and development guidance across the spectrum of problem analysis, material applications, equipment specification, and sensor and control selection.

Roof Cooling Techniques Earthscan

Natural heating and cooling of buildings helps to improve energy efficiency in the built environment. This book considers the principles of roof design and specific systems and cooling techniques. The authors explain the fundamental principles of roof cooling and describe in detail the relevant components, applications, built precedents, recent experimental work and key design considerations. Specific systems and techniques are examined, including the main advantages and disadvantages of each strategy. Environmental functions are considered in terms of protective strategies and selective strategies. Protective strategies include solar control, thermal insulation, heat storage and thermal inertia. Selective strategies include radiative, evaporative and convective cooling and planting of roofs. Traditional and current roof construction practices are described, exemplified by case studies from across Europe. Including a free CD-ROM with software that enables readers to evaluate their own designs, this book will be invaluable for architects and engineers who wish to create buildings that are more energy-efficient.

Environmental Handbook for Building and Civil Engineering Projects: Design and specification Routledge

The combined challenges of health, comfort, climate change and energy security cross the boundaries of traditional building disciplines. This authoritative collection, focusing mostly on energy and ventilation, provides the current and next generation of building engineering professionals

with what they need to work closely with many disciplines to meet these challenges. A Handbook of Sustainable Building Engineering covers: how to design, engineer and monitor a building in a manner that minimises the emissions of greenhouse gases; how to adapt the environment, fabric and services of existing and new buildings to climate change; how to improve the environment in and around buildings to provide better health, comfort, security and productivity; and provides crucial expertise on monitoring the performance of buildings once they are occupied. The authors explain the principles behind built environment engineering, and offer practical guidance through international case studies.

Green Building Handbook: Volume 2 Springer

- Fully updated in reference to the latest construction standards and new building types
- Sustainable design fully integrated into each chapter
- Over 100,000 copies sold to successive generations of architects and designers – this book truly belongs on every design office desk and drawing board. The Metric Handbook is the major handbook of planning and design data for architects and architecture students. Covering basic design data for all the major building types it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as buildings the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook really is the unique reference for solving everyday planning problems. About the Author: David Littlefield is a senior lecturer at the University of the West of England, where he teaches in the department of planning and architecture. For many years he worked as a writer and journalist. David has written, co-written or edited over ten books on architecture. Customer reviews: "This book is a great investment as you will use it throughout your career as an architect." "I have found that this book is the Bible for all planners, contains so much information that no designer or planner should be without a copy." "An essential reference book that should be on the shelf in any design studio."

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The Housing Design Handbook Routledge

The use of solar collectors for domestic hot water over the past 20 years has demonstrated that solar heating systems are now founded on a reliable and mature technology. However, the development of similar, but more complex, systems to provide both domestic hot water and space heating (solar combisystems) resulted in a diverse range of different designs that were not carefully optimized to reflect local climate and practice. Application of energy-efficient building strategies such as improved thermal insulation and use of low temperature heat supply systems is becoming increasingly common. This trend, combined with growing environmental awareness and the subsidies available in certain countries, favours an increase in market share for solar combisystems. The need for guidelines in selecting the appropriate system and designing this system according to the specific needs of the building and the local environment is therefore now increasingly pressing. This book fills that need.

The Green Studio Handbook McGraw Hill Professional

Thermal control systems are an essential element of spacecraft design, ensuring that all parts of the spacecraft remain within acceptable temperature ranges at all times. Spacecraft thermal control describes the fundamentals of thermal control design and reviews current thermal control technologies. The book begins with an overview of space missions and a description of the space environment, followed by coverage of the heat transfer processes relevant to the field. In the third part of the book, current thermal control technologies are described, and in the final part, design, analysis and testing techniques are reviewed. Provides background on the fundamentals of heat transfer which gives the reader a better understanding of the phenomenon and the way Space Thermal Control Systems work Merges the experience of the authors in teaching aerospace engineering topics with the experience as compilers of the 'Spacecraft Thermal Control Design Data Handbook' of the European Space Agency and the development of in orbit thermal control systems for Spanish and ESA Missions The engineering approach is enhanced with a full section on Thermal Control Design, Analysis and Testing