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Fire Fighting Aboard Ships: Structural design and fire extinguishing systems - 1983

Lightweight Sandwich Construction - J. M. Davies 2008-04-15

Sandwich panels are being used increasingly as the cladding of buildings like factories, warehouses, cold stores and retail sheds. This is because they are light in weight, thermally efficient, aesthetically attractive and can be easily handled and erected. However, to date, an authoritative book on the subject was lacking. This new reference work aims to fill that gap. The designer, specifier and manufacturer of sandwich panels all require a great deal of information on a wide range of subjects. This book was written by a group of European experts under the editorship of a UK specialist in lightweight construction. It provides guidance on: * materials used in manufacture * thermal efficiency and air- and water-tightness * acoustic performance * performance in fire * durability * special problems of sandwich panels in cold stores and chill rooms * architectural and aesthetic considerations * structural design at the ultimate and serviceability limit states * additional structural considerations including fastenings, the effect of openings and the use of sandwich panels as load-bearing walls * test procedures The book concludes with some numerical design examples and is highly illustrated throughout.

Plant Engineer's Reference Book - DENNIS A SNOW 2001-12-17

A plant engineer is responsible for a wide range of industrial activities, and may work in any industry. The Plant Engineer's Reference Book 2nd Edition is a reference work designed to provide a primary source of information for the plant engineer. Subjects include the selection of a suitable site for a factory and provision of basic facilities, including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes. Detailed chapters deal with basic issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. The editor, Dennis Snow, has experience of a wide range of operations in the UK, Europe, the USA, and elsewhere in the world. Produced with the backing of the Institution of Plant Engineers, the Plant Engineer's Reference Book, 2nd Edition provides complete coverage of the information needed by plant engineers in any industry worldwide. Wide range of information will prove to be use to engineers in any industry Covers all the topics necessary to design and develop an engineering plant Will help engineers in industry deal with practical problems in a variety of situations

Acoustics and Sound Insulation - Eckard Mommertz 2012-12-17

Acoustics and protection against noise do not perhaps number among the primary parameters that normally influence the design of a building.

Nevertheless, at the very latest when the lecturer in the seminar room cannot be heard, when the noise level in an open-plan office reaches unbearable levels, or when a neighbor's noise deprives you of sleep, it becomes clear just how essential acoustic can be to everyday well-being. It is not just concert halls or the amphitheatres of antiquity that call for acoustic quality; rather, every building, indeed every room, has an acoustic dimension that changes according to the nature of its particular requirements. This practice-oriented volume provides expert planners and architects but also interested developers with practical knowledge on the subject of acoustics in high-rise architecture, beginning with standards on methods of planning and prognosis and moving on to the areas of acoustics of rooms and architecture and noise protection in urban planning. Typologically organized chapters comment on proper approaches to the subject with examples of different types of building such as residential and office buildings, schools, kindergartens, lecture halls, event spaces, and so on, because appropriate acoustic conditions make an essential contribution to the success of a project.

Shipbuilding & Marine Engineering International - 1971

Hydrocarbon Processing - 1982

Materials for Energy Efficiency and Thermal Comfort in Buildings

- Matthew R Hall 2010-04-21

Almost half of the total energy produced in the developed world is inefficiently used to heat, cool, ventilate and control humidity in buildings, to meet the increasingly high thermal comfort levels demanded by occupants. The utilisation of advanced materials and passive technologies in buildings would substantially reduce the energy demand and improve the environmental impact and carbon footprint of building stock worldwide. *Materials for energy efficiency and thermal comfort in buildings* critically reviews the advanced building materials applicable for improving the built environment. Part one reviews both fundamental building physics and occupant comfort in buildings, from heat and mass transport, hygrothermal behaviour, and ventilation, on to

thermal comfort and health and safety requirements. Part two details the development of advanced materials and sustainable technologies for application in buildings, beginning with a review of lifecycle assessment and environmental profiling of materials. The section moves on to review thermal insulation materials, materials for heat and moisture control, and heat energy storage and passive cooling technologies. Part two concludes with coverage of modern methods of construction, roofing design and technology, and benchmarking of façades for optimised building thermal performance. Finally, Part three reviews the application of advanced materials, design and technologies in a range of existing and new building types, including domestic, commercial and high-performance buildings, and buildings in hot and tropical climates. This book is of particular use to, mechanical, electrical and HVAC engineers, architects and low-energy building practitioners worldwide, as well as to academics and researchers in the fields of building physics, civil and building engineering, and materials science. Explores improving energy efficiency and thermal comfort through material selection and sustainable technologies Documents the development of advanced materials and sustainable technologies for applications in building design and construction Examines fundamental building physics and occupant comfort in buildings featuring heat and mass transport, hygrothermal behaviour and ventilation

Marine Engineer and Naval Architect - 1971

Thermal and Acoustic Insulation - R. M. E. Diamant 2014-05-12

Thermal and Acoustic Insulation deals with general aspects of thermal insulation, condensation, properties of inorganic insulation materials, organic high void insulation materials, glass, and glazing. The book also describes noise insulation, computerized insulation calculations, fire properties of insulation materials. The book explains thermal insulation, heat transfer (through conduction, convection, radiation), the theory of water vapor diffusion, and dehumidification. The two types of insulation materials in common use prevent the passage of radiant heat through reflection or by impede the flow of conducted heat. The engineer should

choose insulation materials with a low thermal conductivity that also have a very high void content. The book suggests, in practice, a material with a k-value of 0.035. The other properties of insulation materials are mechanical strength, physical resistance, chemical resistance, temperature limits, fire resistance, hygroscopy, fungoid resistance, and pest resistance. The text describes a variety of materials suitable for insulation, such as gypsum, foamed asbestos, foam glass, glass fiber wool, expanded perlite, vermiculite, and foamed plastics. The book will prove beneficial for architects, for computer programmers involved in insulation, for engineers working in building construction, insulation, fire prevention, as well as for private house- or corporate building-owners.

Brands and Their Companies - 2003

Fibre Alternatives to Asbestos in the Nordic countries - Ole Jørgensen 1994

Fibre Alternatives to Asbestos in the Nordic Countries

Mineral Wool - Brane Širok 2008

Mineral wool has a unique range of properties combining high thermal resistance with long-term stability. It is made from molten glass, stone or slag that is spun into a fibre-like structure which creates a combination of properties that no other insulation material can match. It has the ability to save energy, minimize pollution, combat noise, reduce the risk of fire and protect life and property in the event of fire. Mineral wool: Production and properties describes the technological process of mineral wool production and the physical characteristics of the melt and theoretical bases of multiregression and dimensionless theory. This is followed by the introduction of the fibre cooling model in the blow-away flow and the influence of temperature in the melt film (on the rotating centrifuge wheels) on the thickness of forming fibres. The second part predominantly focuses on the use of computer-aided visualisation: tools for the diagnostics of fibre and primary layer formation. Special attention is given to the study of aerodynamic characteristics of the airflow which significantly influences the quality of the final product. Mineral wool: Production and properties is suitable for engineers, researchers and for

graduate and postgraduate students who want to broaden their knowledge of experimental methods in this field. Describes the technological process of mineral wool production and the physical characteristics. Focuses on the use of computer-aided visualisation and discusses aerodynamic characteristics of the airflow. Essential for engineers, researchers and students to gain knowledge of experimental methods in this field.

Insulating Materials - Margit Pfundstein 2008-01-01

Insulating materials remain as important as ever. The range of available kinds is constantly increasing. Thanks to their heat-insulating properties, they help save heating and cooling energy and reduce CO2 emissions. Detail Practice: Insulating Materials offers a comprehensive catalogue of insulating materials for use in construction. Notes on the individual types of insulating materials provide information on the raw materials they contain as well as their typical attributes, areas of application, and delivery forms. Tables with physical characteristic values and indications regarding health and environmental safety enable the reader to compare different insulating materials. An overview of European regulations and norms pertaining to insulating materials, with notes on product labeling and certification, helps with the process of planning and publishing invitations to tender. Criteria are presented for selecting the appropriate insulating material for the job. In addition, a nuanced description of the environmental effects of insulating materials opens up an enormous optimization potential for using them sustainably.

Director - 1976

AJfocus - 1991

Cladding of Buildings - Alan J. Brookes 2002-09-11

First Published in 1998. Routledge is an imprint of Taylor & Francis, an informa company.

CPE - 1968

Advances in the Toxicity of Construction and Building Materials -

Fernando Pacheco-Torgal 2022-03-05

Advances in the Toxicity of Construction and Building Materials presents the potential and toxic effects of building materials on human health, along with tactics on how to minimize exposure. Chapters are divided into four sections covering the toxicity of indoor environments, fire toxicity, radioactive materials, and toxicity from plastics, metals, asbestos, nanoparticles and construction wastes. Key chapters focus on the reduction of chemical emissions in houses with eco-labelled building materials and potential risks posed by indoor pollutants that may include volatile organic compounds (VOC), formaldehyde, semi-volatile organic compounds (SVOC), radon, NOx, asbestos and nanoparticles. Known illnesses and reactions that can be triggered by these toxic building materials include asthma, itchiness, burning eyes, skin irritations or rashes, nose and throat irritation, nausea, headaches, dizziness, fatigue, reproductive impairment, disruption of the endocrine system, impaired child development and birth defects, immune system suppression, and even cancer. Provides an essential guide to the potential toxic effects of building materials on human health Comprehensively examines materials responsible for formaldehyde and volatile organic compound emissions, as well as semi-volatile organic compounds Presents coverage on fire toxicity and an evaluation of the radioactivity of building materials Includes several cases studies throughout and addresses current international standards

Insulation - 1981

RIBA Journal - 1993

Catalogue of British Official Publications Not Published by HMSO.
- 1981

RIBA Journal - Royal Institute of British Architects 1973

Diccionario geologico - Juan Carlos M. Turner 1972

The Engineer - 1977

British Chemical Engineering & Process Technology - 1968

Details for passive houses - Walter Pokorny 2008

This updated and expanded edition, Details for Passive Houses, includes 100 standard cross-sections that now conform to passive house standards as well as up-to-date ecological evaluations. Planners, architects, and engineers will find reliable construction details for the passive house standard, criteria for the proof of ecologically optimized planning, and important information on the latest building materials. Details for Passive Houses is an essential work of reference for students and architectural professionals.

Engineering - 1969

Dictionary of Building and Civil Engineering - Don Montague
2003-09-02

This dual-language dictionary lists over 20,000 specialist terms in both French and English, covering architecture, building, engineering and property terms. It meets the needs of all building professionals working on projects overseas. It has been comprehensively researched and compiled to provide an invaluable reference source in an increasingly European marketplace.

Fibrous Materials in the Environment - Linda Shuker 1997

CPE. Chemical & Process Engineering - 1968

The Architects' Journal - 1993

Dictionnaire Anglais Du Génie de L'environnement - Routledge
1997

This collection of essays and reviews represents the most significant and comprehensive writing on Shakespeare's A Comedy of Errors. Miola's edited work also features a comprehensive critical history, coupled with

a full bibliography and photographs of major productions of the play from around the world. In the collection, there are five previously unpublished essays. The topics covered in these new essays are women in the play, the play's debt to contemporary theater, its critical and performance histories in Germany and Japan, the metrical variety of the play, and the distinctly modern perspective on the play as containing dark and disturbing elements. To compliment these new essays, the collection features significant scholarship and commentary on *The Comedy of Errors* that is published in obscure and difficult accessible journals, newspapers, and other sources. This collection brings together these essays for the first time.

The Canning of Fish and Meat - R.J. Footitt 2012-12-06

'...aimed at the technical person (and) also a good basic book for undergraduate students...' - *Food Technology New Zealand* -

'...especially useful for food technologists and others in the industry or training for it.' - *Food Australia*

Energy efficiency refurbishments - Clemens Richarz 2013-04-04

The sustainable renovation of older buildings involves more than just an improvement of their energy footprint and it is due to the complexity of the issue why architects are destined to take on this task. The book, *Energy efficiency refurbishments*, was written by architects for architects. It shows how design, construction and systems engineering carried out during the renovation of diverse types of buildings fit together."

Thermal Insulation Handbook for the Oil, Gas, and Petrochemical Industries - Alireza Bahadori 2014-03-14

Thermal Insulation Handbook for the Oil and Gas Industries addresses relative design, materials, procedures, and standard installation necessities for various oil and gas infrastructure such as pipelines, subsea equipment, vessels, and tanks. With the continued increase in available natural gas ready to export — especially LNG — and the definition of "deepwater" changing every year, an understanding of thermal insulation is more critical than ever. This one-of-a-kind handbook helps oil and gas engineers ensure that their products are exported

safely and that the equipment's integrity is protected. Topics include: Design considerations and component selection, including newer materials such as cellular glass Methods to properly install the insulation material and notable inspection and safety considerations in accordance with applicable US and international standards, specifically designed for the oil and gas industry Calculations to make sure that every scenario is considered and requirements for size, composition, and packaging are met effectively Understand all appropriate, new and existing, insulation material properties as well as installation requirements Gain practical knowledge on factors affecting insulation efficiency, rules of thumb, and links to real-world case studies Maximize flow assurance safely and economically with critical calculations provided

Thomas Register of American Manufacturers - 2002

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

Thomas Register of American Manufacturers and Thomas Register Catalog File - 2003

Vols. for 1970-71 includes manufacturers' catalogs.

Federal Register - 1985-03

Building Technology - Ivor H. Seeley 1995-11-11

Describes and examines the constructional techniques, choice and use of materials and the statutory requirements for domestic buildings. The text is generously supported by more than 60 pages of drawings and sketches. It is aimed at first and second year students in a wide variety of disciplines.

Plant Engineer's Handbook - R. Keith Mobley 2001-05-14

Plant engineers are responsible for a wide range of industrial activities, and may work in any industry. This means that breadth of knowledge required by such professionals is so wide that previous books addressing plant engineering have either been limited to only certain subjects or cursory in their treatment of topics. The *Plant Engineering Handbook* offers comprehensive coverage of an enormous range of subjects which

are of vital interest to the plant engineer and anyone connected with industrial operations or maintenance. This handbook is packed with indispensable information, from defining just what a Plant Engineer actually does, through selection of a suitable site for a factory and provision of basic facilities (including boilers, electrical systems, water, HVAC systems, pumping systems and floors and finishes) to issues such as lubrication, corrosion, energy conservation, maintenance and materials handling as well as environmental considerations, insurance matters and financial concerns. One of the major features of this volume is its comprehensive treatment of the maintenance management function; in addition to chapters which outline the operation of the various plant equipment there is specialist advice on how to get the most

out of that equipment and its operators. This will enable the reader to reap the rewards of more efficient operations, more effective employee contributions and in turn more profitable performance from the plant and the business to which it contributes. The Editor, Keith Mobley and the team of expert contributors, have practiced at the highest levels in leading corporations across the USA, Europe and the rest of the world. Produced in association with Plant Engineering magazine, this book will be a source of information for plant engineers in any industry worldwide. * A Flagship reference work for the Plant Engineering series * Provides comprehensive coverage on an enormous range of subjects vital to plant and industrial engineer * Includes an international perspective including dual units and regulations