

[Book] Alfa Laval Heat Exchanger Manual

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Food Industries Manual - Christopher G.J. Baker - 2012-12-06

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Manual provides an indispensable means for the determination of possible topics, set out in alphabetical order to be a legitimate part of the food industry, order in the manner of an encyclopaedia.

Heat Exchanger Equipment Field Manual - Maurice Stewart - 2012-07-23

From upstream to downstream, heat exchangers are utilized in every stage of the petroleum value stream. An integral piece of equipment, heat exchangers are among the most confusing and problematic pieces of equipment in petroleum processing operations. This is especially true for engineers just entering the field or seasoned engineers that must keep up with the latest methods for in-shop and in-service inspection, repair, alteration and re-rating of equipment. The objective of this book is to provide engineers with sufficient information to make better logical choices in designing and operating the system. Heat Exchanger Equipment Field Manual provides an indispensable means for the determination of possible failures and for the recognition of the optimization potential of the respective heat exchanger. Step-by-step procedure on how to design, perform in-shop and in-field inspections and repairs, perform alterations and re-rate equipment Select the correct heat transfer equipment for a particular application Apply heat transfer principles to design, select and specify heat transfer equipment Evaluate the performance of heat transfer equipment and recommend solutions to problems Control schemes for typical heat transfer equipment application

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Food Industries Manual - M. D. Ranken - 2012-12-06

It is a pleasure to be involved in yet another edition the enforcement system and its officers, and the of the Food Industries Manual, and to know that the appearance of many more consultants, advisors and training specialists all claiming to assist manu book remains in sufficiently high demand for a new edition to be necessary. The work of revision and facturers in the discharge of what are described as updating has been rewarding to us and we hope that new and onerous duties. In reaction to all this, food the result will be found at least equally helpful to manufacturers are learning so to order their opera those who use it. tions that their reliability and their commitment to In the five years since the last edition the growth quality and good workmanship can be routinely of the chilled foods sector, in both quantity and demonstrated. The touchstone of this has become quality-with much more refrigeration available accreditation of the manufacturer's systems by an and in use, with close control of refrigeration tem independent authority, for instance that they peratures, storage times, storage temperatures, conform with the International Standard for tra?Sport conditions and display conditions, and Quality Systems, ISO 9000, or its British Standard with better information on labels and elsewhere equivalent, BS 5750. These and related matters are about shelf life and the handling of products-has dealt with in another new Chapter, on Food Issues.

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Heat Exchanger Fouling - Hans Müller-Steinhagen - 2000

This handbook presents the most important technologies concerning the reduction of fouling in heat exchangers and the appropriate technologies of removal and cleaning. Furthermore, the general and scientific fundamentals of heat transfer are explained. Written by experts from Germany, UK and the USA, this book is a reliable adviser for engineers, managers, technicians and students who want to have an overview concerning this field. Advertisements and a table of addresses will enable the reader to get in direct contract with the specialised problem solvers.

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Energy Management Manual for Dairy Processors - - 1985

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Heat Pumps - Walter Grassi - 2017-08-11

The text describes the main features of currently available heat pumps, focusing on system operation and interactions with external heat sources. In fact, before choosing a heat pump, several aspects must be assessed in detail: the actual climate of the installation site, the building's energy requirements, the heating system, the type of operation etc. After discussing the general working principles, the book describes the main components of compression machines - for EHPs, GHPs and CO2 heat pumps. It then addresses absorption heat pumps and provides additional details on the behavior of two-fluid mixtures. The book presents a performance comparison for the different types, helping designers choose the right one for their needs, and discusses the main refrigerants. Notes on helpful additional literature, websites and videos, also concerning relevant European regulations, round out the coverage. This book will be of interest to all engineers and technicians whose work involves heat pumps. It will also benefit students in energy engineering degree programs who want to deepen their understanding of heat pumps.

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Power Generation Retrofitting - Paul Winkle - 2005-02-11

Power Generation Retrofitting - Optimizing Power Plant Performance reviews the experience of previous retrofitting projects and assesses the options currently available from power plant and equipment manufacturers. The book also considers the likely future demand for retrofit services from the UK and overseas markets. Power Generation Retrofitting - Optimizing Power Plant Performance will be of value to those involved in the management, operation, or maintenance of existing plant and to those involved in the design, development, and servicing of steam plant and auxiliary systems. CONTENTS INCLUDE: How high-tech fossil-fuel handling can minimize profit loss when retrofitting steam power generation plant Exchanging rotary heaters The role of the plate heat exchanger in achieving improved performance on steam power generation plant Low-mass-flux, vertical tube furnace retrofit at Yaomeng in the People's Republic of China Optimized plant retrofits New life for older plants - recent utility boilers refurbishment experience.

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Optimized plant retrofits New life for older plants - recent utility boilers refurbishment experience.

First U.K. National Conference on Heat Transfer - Sam Stuart - 2013-10-22

First U.K. National Conference on Heat Transfer, Volume 1, documents the proceedings of the conference organized by the U.K. National Committee for Heat Transfer—a joint committee of the Institutions of Chemical and Mechanical Engineers and includes a member nominated by the Heat Transfer Society—held at the University of Leeds, on 3-5 July 1984. It is intended that the Leeds conference will be the first of a series of UK National Conferences which will be held at four-yearly intervals (1984, 1988, 1992 etc). Thus, for people working in the heat transfer field there will be an opportunity to present and discuss their work at a major conference every two years. This volume contains 55 papers that are presented during Sessions 1-10. The papers in Session 1 deal with post dry-out and drop heat transfer. Session 2 presents studies on the thermal hydraulic aspects of accidents and transients. Session 3 contains papers on the thermal hydraulics of reflood. Session 4 focuses on reactor operational heat transfer while Session 5 deals with AGR and other fuel heat transfer. The presentations in Session 6 cover fouling mechanisms while those in Session 7 focus on fouling detection, inhibition, and control. Session 8 takes up heat transfer in regenerators and fixed beds. Session 9 discusses papers on heat exchange networks. Session 10 contains studies on condensation and condensers.

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Process Technology International - - 1966

Process Technology International - - 1966

CPE. Chemical & Process Engineering - - 1971

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Biosolids Treatment and Management - Mark J. Girovich - 1996-02-29

This work details the economic, regulatory and environmental protection issues related to biosolids management and use. It evaluates current treatment technologies and management strategies for the beneficial utilization of municipal wastewater residuals. Cost information regarding the relative economic merits of special reuse and disposal methods, is presented.

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Juice Processing - Victor Falguera - 2014-04-01

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Danish Dairy & Food Industry Worldwide - - 1998

Danish Dairy & Food Industry Worldwide - - 1998

The Motor Ship - - 1972

The Motor Ship - - 1972

ASME Technical Papers - -

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Heat Exchangers - Sadik Kakaç - 2002-03-14

Researchers, practitioners, instructors, and students all welcomed the first edition of Heat Exchangers: Selection, Rating, and Thermal Design for gathering into one place the essence of the information they need-information formerly scattered throughout the literature. While retaining the basic objectives and popular features of the bestselling first edition, the

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The Australian Journal of Dairy Technology - - 1982

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Handbook of Food Preservation - M. Shafiur Rahman - 1999-01-21

With over 2900 references, tables, and drawings, this book covers a wide variety of conventional and potential food preservation techniques. Emphasizing practical, cost-effective, and safe strategies, the book facilitates the selection of the best food ingredients and preservation techniques. It covers postharvest handling, explains conventional preservation methods, details the use of natural antimicrobials, antioxidants, edible coating, nitrites, food packaging, and HACCP in food safety. Highlighting the effects of preservation methods on the functional and sensory properties of foods, the book also features the exact mode or mechanisms involved in each preservation method.

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Cane Sugar Handbook - James C. P. Chen - 1993-12-16

In print for over a century, it is the definitive guide to cane sugar processing, treatment and analysis. This edition expands coverage of new developments during the past decade--specialty sugars, plant maintenance, automation, computer control systems and the latest in instrumental analysis for the sugar industry.

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Feta & Related Cheeses - R. K. Robinson - 1996-05-12

Feta cheese has become popular in recent years as part of a broad consumer demand for ethnic foods which are perceived to be natural, wholesome, and tasty. Today Feta cheese is readily available in the cheese section of most food retailers. This book provides a detailed guide to Feta and other white brined cheese: raw materials, processes, manufacture, equipment, and packaging. Both traditional and modern industrial methods are covered. Specifications, chemistry, microbiology and sensory considerations are also examined. The book is well illustrated with flow charts, diagrams, photographs and microphotographs. Extensive technical reference data is provided in the many tables. The authors are all specialists in cheese and other dairy products. This is a basic guide and reference for dairy product and other food product personnel involved in product development and processing. Copies are now available for prompt delivery. An order form follows the detailed table of contents on the reverse. From the Preface White brined cheeses are the main varieties of cheese consumed in the Middle East and along the shores of the Mediterranean, and yet the literature describing the manufacture and/or properties of the major types is extremely sparse. The aim of this book is to provide a detailed guide to the cheeses in this category, and to review the available information relating to their production, their maturation and their distribution to the consumer. In most cases, the cheese are still produced on a small scale, and only one variety, Feta, has achieved real popularity outside its land of origin. One of the reasons for this single success is the degree of mechanization that can now be employed in the manufacture of Feta, including the latest technological developments such as ultra-filtration.

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Chemical & Process Engineering - - 1966

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Handbook of Hygiene Control in the Food Industry - H. L. M. Lelieveld - 2005-10-30

Developments such as the demand for minimally-processed foods have placed a renewed emphasis on good hygienic practices in the food industry. As a result there has been a wealth of new research in this area.

packaging equipment to valves, pipes and sensors. Key issues in effective hygiene management are then covered in part three, from risk analysis, good manufacturing practice and standard operating procedures (SOPs) to improving cleaning and decontamination techniques. The final part of the book reviews developments in ways of monitoring the effectiveness of hygiene operations, from testing surface cleanability to sampling techniques and hygiene auditing. Like Hygiene in the food industry, this book is a standard reference for the food industry in ensuring the highest standards of hygiene in food production. Standard reference on high hygiene standards for the food industry Provides a comprehensive summary of the key trends in food hygiene research Effective hygiene management strategies are explored

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Developments such as the demand for minimally-processed foods have placed a renewed emphasis on good hygienic practices in the food industry. As a result there has been a wealth of new research in this area. Complementing Woodhead's best-selling Hygiene in the food industry, which reviews current best practice in hygienic design and operation, Handbook of hygiene control in the food industry provides a comprehensive summary of the key trends and issues in food hygiene research. Developments go fast: results of the R&D meanwhile have been applied or are being implemented as this book goes to print. Part one reviews research on the range of contamination risks faced by food processors. Building on this foundation, Part two discusses current trends in the design both of buildings and types of food processing equipment, from heating and

hygiene management are then covered in part three, from risk analysis, good manufacturing practice and standard operating procedures (SOPs) to improving cleaning and decontamination techniques. The final part of the book reviews developments in ways of monitoring the effectiveness of hygiene operations, from testing surface cleanability to sampling techniques and hygiene auditing. Like Hygiene in the food industry, this book is a standard reference for the food industry in ensuring the highest standards of hygiene in food production. Standard reference on high hygiene standards for the food industry Provides a comprehensive summary of the key trends in food hygiene research Effective hygiene management strategies are explored

Petroleum Refining. Vol. 4 Materials and Equipment - Pierre Trambouze - 2000-10-02

This five-volume series covers the entire range of technologies used in the petroleum refining industry. The books are intended for students and for the engineers and technicians who operate in refineries. This volume is devoted to the main equipment used in a refinery or a petrochemical complex, classified by technology. The basic principles for design and sizing are presented for each type of equipment. The details of practical implementation are also discussed with a view to maximum efficiency. Equipment selection criteria are provided for specific applications. Lastly, emphasis is placed on the major trends in equipment development. Contents: I. Separation technologies. 1. Gas-liquid contactors for distillation: plate columns. 2. Gas-liquid contactors for distillation: packed columns. 3. Solvent extraction equipment. 4. Techniques for physical separation of phases. II. Heat transfer technologies. 5. Process furnaces. 6. Heat exchangers. III. Reaction technologies. 7. Chemical reactor technology. IV. Mechanical operations. 8. Pumps, compressors, turbines and ejectors. 9. Agitation and mixing techniques. V. Control and optimization techniques. 10. Control and Monitoring. 11. Rational use of energy. References. Index.

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Plate Heat Exchangers - Bengt Sundén - 2007

Plate-and-frame heat exchangers (PHEs) are used in many different processes at a broad range of temperatures and with a variety of substances. Research into PHEs has increased considerably in recent years and this is a compilation of knowledge on the subject. Containing invited contributions from prominent and active investigators in the area, it should enable graduate students, researchers, and research and development engineers in industry to achieve a better understanding of transport processes. Some guidelines for design and development are also included.

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Energy Research Abstracts - - 1985

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Modern Power Systems - - 1988

Modern Power Systems - - 1988

National Union Catalog - - 1976

National Union Catalog - - 1976

Solar Energy Update - - 1985

Solar Energy Update - - 1985

Second Australasian Conference on Heat and Mass Transfer, University of Sydney, N.S.W. Australia, February 16-18, 1977 - - 1977

Second Australasian Conference on Heat and Mass Transfer, University of Sydney, N.S.W. Australia, February 16-18, 1977 - - 1977

Power - -

Power - -

The Australian & New Zealand Grapegrower & Winemaker - - 2003

The Australian & New Zealand Grapegrower & Winemaker - - 2003

Pounder's Marine Diesel Engines and Gas Turbines - Doug Woodyard - 2009-08-18

Since its first appearance in 1950, Pounder's Marine Diesel Engines has

cover new legislation including that on emissions and provides details on examinations and the marine engineering industry throughout the world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. Now in its ninth edition, Pounder's retains the directness of approach and attention to essential detail that characterized its predecessors. There are new chapters on monitoring control and HiMSEN engines as well as information on developments in electronic-controlled fuel injection. It is fully updated to cover new legislation including that on emissions and provides details on enhancing overall efficiency and cutting CO2 emissions. After experience as a seagoing engineer with the British India Steam Navigation Company, Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers. He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping, shipbuilding and marine engineering. He is currently technical editor of Marine Propulsion and Auxiliary Machinery, a contributing editor to Speed at Sea, Shipping World and Shipbuilder and a technical press consultant to Rolls-Royce Commercial Marine. * Helps engineers to understand the latest changes to marine diesel engines * Careful organisation of the new edition enables readers to access the information they require * Brand new chapters focus on monitoring control systems and HiMSEN engines. * Over 270 high quality, clearly labelled illustrations and figures to aid understanding and help engineers quickly identify what they need to know.

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Design Structure Matrix Methods and Applications - Steven D. Eppinger - 2012-05-25

An introduction to a powerful and flexible network modeling tool for developing and understanding complex systems, with many examples from a range of industries. Design structure matrix (DSM) is a straightforward and flexible modeling technique that can be used for designing, developing, and managing complex systems. DSM offers network modeling tools that represent the elements of a system and their interactions, thereby highlighting the system's architecture (or designed structure). Its advantages include compact format, visual nature, intuitive representation, powerful analytical capacity, and flexibility. Used primarily so far in the area of engineering management, DSM is increasingly being applied to complex issues in health care management, financial systems, public policy, natural sciences, and social systems. This book offers a clear and concise explanation of DSM methods for practitioners and researchers.

Design Structure Matrix Methods and Applications - Steven D. Eppinger - 2012-05-25

An introduction to a powerful and flexible network modeling tool for

range of industries. Design structure matrix (DSM) is a straightforward and flexible modeling technique that can be used for designing, developing, and managing complex systems. DSM offers network modeling tools that represent the elements of a system and their interactions, thereby highlighting the system's architecture (or designed structure). Its advantages include compact format, visual nature, intuitive representation, powerful analytical capacity, and flexibility. Used primarily so far in the area of engineering management, DSM is increasingly being applied to complex issues in health care management, financial systems, public policy, natural sciences, and social systems. This book offers a clear and concise explanation of DSM methods for practitioners and researchers.

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