Exchanger

Dusan P. Sekulic, Ramesh K. Shah

Heat Exchanger Design Handbook Kuppan Thulukkanam,2000-02-23 This comprehensive reference covers all the important aspects of heat exchangers (HEs)--their design and modes of operation--and practical, large-scale applications in process, power, petroleum, transport, air conditioning, refrigeration, cryogenics, heat recovery, energy, and other industries. Reflecting the author's extensive practical experienc

Fundamentals of Heat Exchanger Design Ramesh K. Shah, Dusan P. Sekulic, 2003-08-11 Comprehensive and unique source integrates the material usually distributed among a half a dozen sources. * Presents a unified approach to modeling of new designs and develops the skills for complex engineering analysis. * Provides industrial insight to the applications of the basic theory developed.

Heat Exchanger Design Guide Manfred Nitsche,Raji Olayiwola Gbadamosi,2015-09-28 Heat Exchanger Design Guide: A Practical Guide for Planning, Selecting and Designing of Shell and Tube Exchangers takes users on a step-by-step guide to the design of heat exchangers in daily practice, showing how to determine the effective driving temperature difference for heat transfer. Users will learn how to calculate heat transfer coefficients for convective heat transfer, condensing, and evaporating using simple equations. Dew and bubble points and lines are covered, with all calculations supported with examples. This practical guide is designed to help engineers solve typical problems they might encounter in their day-to-day work, and will also serve as a useful reference for students learning about the field. The book is extensively illustrated with figures in support of the text and includes calculation examples to ensure users are fully equipped to select, design, and operate heat exchangers. Covers design method and practical correlations needed to design practical heat exchangers for process application Includes geometrical calculations for the tube and shell side, also covering boiling and condensation heat transfer Explores heat transfer coefficients and temperature differences Designed to help engineers solve typical problems they might encounter in their day-to-day work, but also ideal as a useful reference for students learning about the field

Handbook [of] 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. The general and scientific fundamentals of heat transfer are also explained.

Heat Exchanger Design Arthur P. Fraas, 1991-01-16 This Second Edition of the well-received work on design, construction, and operation of heat exchangers. Demonstrates how to apply theories of fluid mechanics and heat transfer to practical problems posed by design, testing, and installation of heat exchangers. Tables and data have been brought up to date, and there is new material on problems of vibration and fouling, and on optimization of energy use in the chemical process and manufacturing industries. Covers all basic principles of heat exchanger design, and addresses many specialized situations encountered in engineering applications.

Compact Heat Exchangers J.E. Hesselgreaves, 2001-05-08 This book presents the ideas and industrial concepts in compact heat exchanger technology that have been developed in the last 10 years or so. Historically, the development and application of compact heat exchangers and their surfaces has taken place in a piecemeal fashion in a number of rather unrelated areas, principally those of the automotive and prime mover, aerospace, cryogenic and refrigeration sectors. Much detailed technology, familiar in one sector, progressed only slowly over the boundary into another sector. This compartmentalisation was a feature both of the user industries themselves, and also of the supplier, or manufacturing industries. These barriers are now breaking down, with valuable cross-fertilisation taking place. One of the industrial sectors that is waking up to the challenges of compact heat exchangers is that broadly defined as the process sector. If there is a bias in the book, it is towards this sector. Here, in many cases, the technical challenges are severe, since high pressures and temperatures are often involved, and working fluids can be corrosive, reactive or toxic. The opportunities, however, are correspondingly high, since compacts can offer a combination of lower capital or installed cost, lower temperature differences (and hence running costs), and lower inventory. In some cases they give the opportunity for a radical rethink of the process design, by the introduction of process intensification (PI) concepts such as combining process elements in one unit. An example of this is reaction and heat exchange, which offers, among other advantages, significantly lower by-product production. To stimulate future research, the author includes coverage of hitherto neglected approaches, such as that of the Second Law (of Thermodynamics), pioneered by Bejan and co- workers. The justification for this is that there is increasing interest in life-cycle and sustainable approaches to industrial activity as a whole, often involving exer

Heat Exchanger Design Handbook, Second Edition Kuppan Thulukkanam,2013-05-20 Completely revised and updated to reflect current advances in heat exchanger technology, Heat Exchanger Design Handbook, Second Edition includes enhanced figures and thermal effectiveness charts, tables, new chapter, and additional topics—all while keeping the qualities that made the first edition a centerpiece of information for practicing engineers, research, engineers, academicians, designers, and manufacturers involved in heat exchange between two or more fluids. See What's New in the Second Edition: Updated information on pressure vessel codes, manufacturer's association standards A new chapter on heat exchanger installation, operation, and maintenance practices Classification chapter now includes coverage of scrapped surface-, graphite-, coil wound-, microscale-, and printed circuit heat exchangers Thorough revision of fabrication of shell and tube heat exchangers, heat transfer augmentation methods, fouling control concepts and inclusion of recent advances in PHEs New topics like EMbaffle®, Helixchanger®, and Twistedtube® heat exchanger, feedwater heater, steam surface condenser, rotary regenerators for HVAC applications, CAB brazing and cupro-braze radiators Without proper heat exchanger design, efficiency of cooling/heating system of plants and machineries, industrial processes and energy system can be compromised, and energy wasted. This thoroughly revised handbook offers comprehensive coverage of single-phase heat exchangers—selection, thermal design, mechanical design, corrosion and fouling, FIV, material selection and their fabrication issues, fabrication of heat exchangers, operation, and maintenance of heat exchangers—all in one volume.

Fundamentals of Heat Exchanger Design Dusan P. Sekulic,Ramesh K. Shah,2023-12-07 Fundamentals of Heat Exchanger Design, Second Edition builds upon the widely-used First Edition, a text often considered to be the most prominent single-volume heat exchanger text on the market. The new and improved Second Edition serves as an equally comprehensive resource, updated to suit the latest technologies and design methods being used in the Heat Exchanger field. Written by First-Edition author Dusan P. Sekulic, this text addresses the latest developments in the industry, including a brand-new chapter on the manufacturing of compact heat exchangers. After opening with a basic introduction to heat exchanger types and design methods, the book goes on to cover more specialized topics such as such as the design of recuperators and regenerators, pressure drop analysis, geometric properties, flow friction, fouling and corrosion, and more. With many significant revisions throughout, this new edition offers more streamlined content while maintaining the consistent, detailed coverage of the fundamentals of the topic that readers appreciated in the First Edition. These unique features position the Second Edition of Fundamentals of Heat Exchanger Design as the ideal text for both engineering professionals and advanced students alike.

Fundamentals of Industrial Heat Exchangers Hossain Nemati, Mohammad Moghimi Ardekani, James Mahootchi, Josua P. Meyer, 2024-01-13 Fundamentals of Heat Exchangers: Selection, Design, Construction, and Operation is a detailed guide to the design and construction of heat exchangers in both a research and industry context. This book is split into three parts, firstly outlining the fundamental properties of various types of heat exchangers and the critical decisions surrounding material selection, manufacturing methods, and cleaning options. The second part provides a comprehensive grounding in the theory and analysis of heat exchangers, guiding the reader step-by-step toward thermal design. Finally, the book shows how to apply industrial codes to this process with a detailed

demonstration, designing a shell-and-tube exchanger compliant with the important but complex code ASME, Sec. VIII, Div.1. Taking into account the real-world considerations of heat-exchanger design, this book takes a reader from fundamental principles to the mechanical design of heat exchangers for industry or research. Presents a full guide to the design of heat exchangers from thermal analysis to mechanical construction Provides detailed case studies and real-world applications, including a unique collection of photos, sketches, and data from industry and research Takes designers through the process of applying industry codes using a step-by-step demonstration of designing shell-and-tube heat exchangers compliant with ASME, Sec. VIII, Div.1

Heat Exchanger Network Synthesis Uday V. Shenoy,1995 Heat Exchanger Network Synthesis provides engineers, designers, and industrial practitioners with a how-to manual for understanding the methodology for conserving energy through process integration.

Heat Exchangers Kuppan Thulukkanam,2024-02-29 Heat Exchangers: Operation, Performance, and Maintenance, Third Edition covers heat exchanger installation, commissioning and operation, and maintenance and performance monitoring in service. Focusing on in-service issues like flow-induced vibration, corrosion, and corrosion control, and fouling and fouling control, the book explores performance deterioration in service, maintenance issues, defects, tube failures, and how to detect these issues with NDT methods. It discusses various cleaning processes and repair methods. The book also considers boilers, utility boilers, coal-based thermal power plants, boiler corrosion, and boiler degradation mechanisms. It discusses different types of cooling systems, feedwater treatment, deaerators, feedwater heaters, economizers, condensers, cooling towers, and cooling-water management. The book serves as a useful reference for researchers, graduate students, power plant engineers, and engineers in the field of heat exchanger design, including pressure vessel manufacturers.

Industrial Boilers, Heat Exchangers and Steam Condensers United States. Defense Supply Agency, 1966

Compact Heat Exchangers C. Ranganayakulu,Kankanhalli N. Seetharamu,2018-02-02 A comprehensive source of generalized design data for most widely used fin surfaces in CHEs Compact Heat Exchanger Analysis, Design and Optimization: FEM and CFD Approach brings new concepts of design data generation numerically (which is more cost effective than generic design data) and can be used by design and practicing engineers more effectively. The numerical methods/techniques are introduced for estimation of performance deteriorations like flow non-uniformity, temperature non-uniformity, and longitudinal heat conduction effects using FEM in CHE unit level and Colburn j factors and Fanning friction f factors data generation method for various types of CHE fins using CFD. In addition, worked examples for single and two-phase flow CHEs are provided and the complete qualification tests are given for CHEs use in aerospace applications. Chapters cover: Basic Heat Transfer; Compact Heat Exchangers; Fundamentals of Finite Element and Finite Volume Methods; Finite Element Analysis of Compact Heat Exchangers; Generation of Design Data by CFD Analysis; Thermal and Mechanical Design of Compact Heat Exchanger; and Manufacturing and Qualification Testing of Compact Heat Exchanger. Provides complete information about basic design of Compact Heat Exchangers Design and data generation is based on numerical techniques such as FEM and CFD methods rather than experimental or analytical ones Intricate design aspects included, covering complete cycle of design, manufacturing, and qualification of a Compact Heat Exchanger Appendices on basic essential fluid properties, metal characteristics, and derivation of Fourier series mathematical equation Compact Heat Exchanger Analysis, Design and Optimization: FEM and CFD Approach is ideal for senior undergraduate and graduate students studying equipment design and heat exchanger design.

Plate Heat Exchangers Bengt Sundén, R. M. Manglik, 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.

Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts Li-Zhi Zhang,2013-08-31 Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts bridges the gap between fundamentals and recent discoveries, making it a valuable tool for anyone looking to expand their knowledge of heat exchangers. The first book on the market to cover conjugate heat and mass transfer in heat exchangers, author Li-Zhi Zhang goes beyond the basics to cover recent advancements in equipment for energy use and environmental control (such as heat and moisture recovery ventilators, hollow fiber membrane modules for humidification/dehumidification, membrane modules for air purification, desiccant wheels for air dehumidification and energy recovery, and honeycomb desiccant beds for heat and moisture control). Explaining the data behind and the applications of conjugated heat and mass transfer allows for the design, analysis, and optimization of heat and mass exchangers. Combining this recently discovered data into one source makes it an invaluable reference for professionals, academics, and other interested parties. A research-based approach emphasizing numerical methods in heat mass transfer Introduces basic data for exchangers' design (such as friction factors and the Nusselt/Sherwood numbers), methods to solve conjugated problems, the modeling of various heat and mass exchangers, and more The first book to include recently discovered advancements of mass transfer and fluid flow in channels comprised of new materials Includes illustrations to visually depict the book's key concepts

Heat Exchangers Sadik Kakaç, Hongtan Liu, Anchasa Pramuanjaroenkij, 2020-01-21 Heat exchangers are essential in a wide range of engineering applications, including power plants, automobiles, airplanes, process and chemical industries, and heating, air-conditioning, and refrigeration systems. Revised and fully updated with new problem sets, Heat Exchangers: Selection, Rating, and Thermal Design, Fourth Edition presents a systematic treatment of heat exchangers, focusing on selection, thermal-hydraulic design, and rating. Topics discussed include Classification of heat exchangers Basic design methods of heat exchangers for sizing and rating problems Single-phase forced convection correlations for heat exchangers Pressure drop and pumping power for heat exchangers and piping circuits Design methods of heat exchangers subject to fouling Thermal design methods and processes for double-pipe, shell-and-tube, gasketed-plate, compact, and polymer heat exchangers Two-phase convection correlations for heat exchangers Thermal design of condensers and evaporators Micro/nanoheat transfer The Fourth Edition contains updated information about microscale heat exchangers and the enhancement heat transfer for applications to heat exchanger design and experiment with nanofluids. The Fourth Edition is designed for courses/modules in process heat transfer, thermal systems design, and heat exchanger technology. This text includes full coverage of all widely used heat exchanger types.

Nanofluids for Heat Exchangers Hafiz Muhammad Ali, Ali Hassan, Abdul Wahab, 2022-08-31 This book describes the importance of heat transfer in heat exchangers, and fluids properties play a vital role to increase heat transfer rate translating the size of the equipment and cuts in the capital and running cost in the long term. Nanofluids applications in heat exchangers will help to improve the thermophysical properties of the fluid and therefore heat transfer. And, this book explains the enhancing mechanisms of heat transfer by employing nanofluids in heat exchangers. A critical discussion will enable to estimate the pros and cons of such fluids in different types of heat exchangers. Prevailing working conditions for short- and long-term implementation of various types of nanofluids will be discussed and introduced to the readers. This book helps the researchers, scientist and academicians working in the domain to be able to get a comprehensive knowledge at one place regarding the preparation, properties, measurements, data reduction, characteristics and applications of nanofluids in heat exchangers.

Heat Exchangers Jovan Mitrovic,2012-03-09 Selecting and bringing together matter provided by specialists, this project offers comprehensive information on particular cases of heat exchangers. The selection was guided by actual and future demands of applied research and industry, mainly focusing on the efficient use and conversion energy in changing environment. Beside the questions of thermodynamic basics, the book addresses several important issues, such as

conceptions, design, operations, fouling and cleaning of heat exchangers. It includes also storage of thermal energy and geothermal energy use, directly or by application of heat pumps. The contributions are thematically grouped in sections and the content of each section is introduced by summarising the main objectives of the encompassed chapters. The book is not necessarily intended to be an elementary source of the knowledge in the area it covers, but rather a mentor while pursuing detailed solutions of specific technical problems which face engineers and technicians engaged in research and development in the fields of heat transfer and heat exchangers.

Handbook for Transversely Finned Tube Heat Exchanger Design Eugene Pis'mennyi, Georgiy Polupan, Ignacio Carvajal-Mariscal, Florencio Sanchez-Silva, Igor Pioro, 2016-05-06 Handbook for Transversely Finned Tubes Heat Exchangers Design contains detailed experimental data, correlations, and design methods for designing and improving the performance of finned tube heat exchangers. It covers the three main types, circular finned, square finned, and helical finned tube bundles. Based on extensive experimental studies and tested at leading design and research institutions, this handbook provides an extensive set of materials for calculating and designing convective surfaces from transversely finned tubes, with a particular emphasis on power plant applications. Provides a design manual for calculating heat transfer and aerodynamic resistance of convective heating surfaces fabricated in the form of tube bundles with transverse circular, square and helical fins Presents calculations for finned surfaces operating under conditions of clean and dust-laden flows alike, including finned convective heating surfaces of boilers Includes a fully solved exercise at the end of the book, illustrating the top-down approach specially oriented to power plant heat exchangers

Use of Ion Exchangers in Analytical Chemistry R. H. Lafferty, 1949

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