

Heat Exchanger

Xian Wen Ng

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

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 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 re-think 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 exergy (Second Law) analysis. Heat exchangers, being fundamental components of energy and process systems, are both savers and spenders of exergy, according to interpretation.

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.

Compact Heat Exchangers William Morrow Kays,Alexander Louis London,1958

Compact Heat Exchangers J.E. Hesselgreaves,Richard Law,David Reay,2016-09-26 Compact Heat Exchangers: Selection, Design, and Operation, Second Edition, is fully revised to present the most recent and fundamental ideas and industrial concepts in compact heat exchanger technology. This complete reference compiles all aspects of theory, design rules, operational issues, and the most recent developments and technological advancements in compact heat exchangers. New to this edition is the inclusion of micro, sintered, and porous passage description and data, electronic cooling, and an introduction to convective heat transfer fundamentals. New revised content provides up-to-date coverage of industrially available exchangers, recent fouling theories, and reactor types, with summaries of off-design performance and system effects and installations issues in, for example, automobiles and aircraft. Hesselgreaves covers previously neglected approaches, such as 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 exergy (Second Law) analysis. Heat exchangers, being fundamental components of energy and process systems, are both savers and spenders of energy, according to interpretation. Contains revised content, covering industrially available exchangers, recent fouling theories, and reactor types Includes useful comparisons throughout with conventional heat exchangers to emphasize the benefits of CPHE applications Provides a thorough system view from commissioning, operation, maintenance, and design approaches to reduce fouling and fouling factors Compiles all aspects of theory, design rules, operational issues, and the most recent developments and technological advancements in compact heat exchangers

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.

Fouling of Heat Exchangers T.R. Bott,1995-04-13 This unique and comprehensive text considers all aspects of heat exchanger fouling from the basic science of how surfaces become fouled to very practical ways of mitigating the problem and from mathematical modelling of different fouling mechanisms to practical methods of heat exchanger cleaning. The problems that restrict the efficient operation of equipment are described and the costs, some of them hidden costs, that are associated with the fouling of heat exchangers are discussed. Some simple concepts and models of the fouling processes are presented as part of the introduction to the subject. Advice on the selection, design, installation and commissioning of heat exchangers to minimise fouling is given. A large part of the text is devoted to the use of chemical and other additives to reduce or eliminate the problem of fouling. Another large section is designed to give information on both on-line and off-line cleaning of heat exchangers. One of the difficulties faced by designers and operators of heat exchangers is anticipating the likely extent of fouling problems to be encountered with different flow streams. Another large section addresses the question and describes methods that have been used in attempting to define fouling potential. The book concludes with a chapter on how fouling information can be obtained using plant data, field tests and laboratory studies.

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 experience

Innovative Heat Exchangers Hans-Jörg Bart,Stephan Scholl,2017-12-30 This accessible book presents unconventional technologies in heat exchanger design that have the capacity to provide solutions to major concerns within the process and power-generating industries. Demonstrating the advantages and limits of these innovative heat exchangers, it also discusses micro- and nanostructure surfaces and micro-scale equipment, and introduces pillow-plate, helical and expanded metal baffle concepts. It offers step-by-step worked examples, which provide instructions for developing an initial configuration and are supported by clear, detailed drawings and pictures. Various types of heat exchangers are available, and they are widely used in all fields of industry for cooling or heating purposes, including in combustion engines. The market in 2012 was estimated to be U\$ 42.7 billion and the global demand for heat exchangers is experiencing an annual growth of about 7.8 %. The market value is expected to reach U\$ 57.9 billion in 2016, and approach U\$ 78.16 billion in 2020. Providing a valuable introduction to students and researchers, this book offers clear and concise information to thermal engineers, mechanical engineers, process engineers and heat exchanger specialists.

Industrial Heat Exchangers Graham Walker,1982

Heat Exchanger Equipment Field Manual Maurice Stewart,Oran T. Lewis,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

Advanced Analytic and Control Techniques for Thermal Systems with Heat Exchangers Libor Pekar,2020-07-10 Advanced Analytic Control Techniques for Thermal Systems with Heat Exchangers presents the latest research on sophisticated analytic and control techniques specific for Heat Exchangers (HXs) and heat Exchanger Networks (HXNs), such as Stability Analysis, Efficiency of HXs, Fouling Effect, Delay Phenomenon, Robust Control, Algebraic Control, Geometric Control, Optimal Control, Fuzzy Control and Artificial Intelligence techniques. Editor Libor Pekar and his team of global expert contributors combine their knowledge and experience of investigated and applied systems and processes in this thorough review of the most advanced networks, analyzing their dynamics, efficiency, transient features, physical properties, performance, feasibility, flexibility and controllability. The structural and dynamic analyses and control approaches of HXNs, as well as energy efficient manipulation techniques are discussed, in addition to the design of the control systems through the full life cycle. This equips the reader with an understanding of the relevant theory in a variety of settings and scenarios and the confidence to apply that knowledge to solve problems in an academic or professional setting. Graduate students and early-mid career professionals require a robust understanding of how to suitably design thermal systems with HXs and HXNs to achieve required performance levels, which this book offers in one consolidated reference. All examples and solved problems included have been tried and tested, and these combined with the research driven theory provides professionals, researchers and students with the most recent techniques to maximize the energy efficiency and sustainability of existing and new thermal power systems. Analyses several advanced techniques, the theoretical background of these techniques and includes models, examples and results throughout Focusses on advanced analytic and control techniques which have been investigated or applied to thermal systems with HXs and HXNs Includes practical applications and advanced ideas from leading experts in the field, as well as case studies and tested problems and solutions

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 Exchangers S. M. Sohel Murshed,Manuel Matos Lopes,2017-04-27 Presenting contributions from renowned experts in the field, this book covers research and development in fundamental areas of heat exchangers, which include: design and theoretical development, experiments, numerical modeling and simulations. This book is intended to be a useful reference source and guide to researchers, postgraduate students, and engineers in the fields of heat exchangers, cooling, and thermal management.

Concise Guide to Heat Exchanger Network Design Xian Wen Ng,2020-08-07 This book serves as an extensive practice manual for the understanding and practice of heat

exchanger design fundamentals and principles. It also provides a useful resource to upper undergraduate students, who are required to complete final year design projects as part of graduation. The book complements other key topics in science and engineering courses well, such as the branch of thermodynamics which relates closely to the core design principles for heat exchanger networks (FThis book serves as an extensive practice manual for the understanding and practice of heat exchanger design fundamentals and principles. It also provides a useful resource to upper undergraduate students, who are required to complete final year design projects as part of graduation. The book complements other key topics in science and engineering courses well, such as the branch of thermodynamics which relates closely to the core design principles for heat exchanger networks (First and Second Laws of Thermodynamics). Provides balanced content with numerical and open-ended problems; Tailored to the needs of students and teachers; Concise yet rigorous treatment of concepts; Incorporates use of visuals to aid learning; Reinforces engineering concepts in real-life applications.

Handbook for Transversely Finned Tube Heat Exchanger Design Eugene Pis'mennyi,Georgiy Polupan,Ignacio Carvajal-Mariscal,Florencio Sanchez-Silva,Igor Piore,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

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.

Heat Exchangers Sadik Kakaç,Hongtan Liu,Anchasa Pramuanjaroenkij,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 fi

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