

Cross Flow In Heat Exchanger

Brian Tausig

Thermal Performance Modeling of Cross-Flow Heat Exchangers Luben Cabezas-Gómez, Hélio Aparecido Navarro, José Maria Saíz-Jabardo, 2014-08-18 This monograph introduces a numerical computational methodology for thermal performance modeling of cross-flow heat exchangers, with applications in chemical, refrigeration and automobile industries. This methodology allows obtaining effectiveness-number of transfer units (e-NTU) data and has been used for simulating several standard and complex flow arrangements configurations of cross-flow heat exchangers. Simulated results have been validated through comparisons with results from available exact and approximate analytical solutions. Very accurate results have been obtained over wide ranges of NTU and C^* values in all cases. The proposed procedure constitutes a useful research tool for both theoretical and experimental studies of cross-flow heat exchangers. The following are the unique features of the book: - The monograph includes the computational code named HETE (Heat Exchanger Thermal Effectiveness) in Chapter 5. A version of this code is available for downloading. - The computational procedure could be used for reducing experimental data using the effectiveness - NTU (e-NTU) method in research and industrial laboratories. - Even after more than one century in heat exchanger research, the search for new flow arrangements with higher effectiveness still is an unsolved problem. The present methodology could be a useful tool in pursuing that goal.

Thermal Performance Modeling of Cross-Flow Heat Exchangers Luben Cabezas-Gómez, Helio Aparecido Navarro, José Maria Saíz-Jabardo, 2014-10-08 This monograph introduces a numerical computational methodology for thermal performance modeling of cross-flow heat exchangers, with applications in chemical, refrigeration and automobile industries. This methodology allows obtaining effectiveness-number of transfer units (e-NTU) data and has been used for simulating several standard and complex flow arrangements configurations of cross-flow heat exchangers. Simulated results have been validated through comparisons with results from available exact and approximate analytical solutions. Very accurate results have been obtained over wide ranges of NTU and C^* values in all cases. The proposed procedure constitutes a useful research tool for both theoretical and experimental studies of cross-flow heat exchangers. The following are the unique features of the book: - The monograph includes the computational code named HETE (Heat Exchanger Thermal Effectiveness) in Chapter 5. A version of this code is available for downloading. - The computational procedure could be used for reducing experimental data using the effectiveness - NTU (e-NTU) method in research and industrial laboratories. - Even

after more than one century in heat exchanger research, the search for new flow arrangements with higher effectiveness still is an unsolved problem. The present methodology could be a useful tool in pursuing that goal.

Heat Transfer in Tube Banks in Crossflow Al'girdas Al'fonsovich Zhukauskas, Romanas Ulinskas, 1988

Micro Cross-flow Heat Exchanger Shung-wen David Kang, 1992

A Study of Cross-flow Heat Exchanger Transients Ryuzo Nagaoka, 1964

Analysis of Three-fluid, Crossflow Heat Exchangers Noel C. Willis (Jr.), 1968 The detailed behavior of three-fluid, crossflow heat exchangers has been investigated. The equations governing the two-dimensional temperature distributions of the three fluids have been derived and nondimensionalized. Performance characteristics have been determined for a wide range of operating parameters for single-pass heat exchangers. The performance of two-pass heat exchangers for both cocurrent and countercurrent flow has been studied for selected operating conditions. Results have been presented graphically in terms of the temperature effectiveness of the two outer fluids as functions of heat-exchanger size for sets of fixed operating conditions. Nondimensional operating parameters have been defined which allow an efficient presentation of the large volume of performance data required to represent a practical range of operating conditions. Sample problems are included to illustrate the use of the performance graphs for design applications.

Heat Exchangers Holger Martin, 2018-05-04 This is a text/reference illustrating thermal and hydraulic design of heat exchangers. The book shows how to apply the fundamentals of thermodynamics, heat transfer, and fluid dynamics for a systematic analysis of the phenomena in heat exchangers, important to energy effective operation in process plants. Beginning with illustrative examples detailing applications of fundamentals, the text then shows the influence of flow configuration on the performance of heat exchangers. Here the equations to calculate mean temperature difference and efficiency for stirred tank, parallel, counter-and cross flow and their combinations are derived and put together in a new and very compact way. In some cases, short computer programs are given to evaluate more complicated formulas or algorithms. Chapter 3 is comprised of seven fully worked out examples showing application of the fundamentals to thermal and hydraulic design, i.e. sizing of heat exchangers. It includes problems and worked examples and is written in a self study format. The text should be useful to practicing engineers and also graduate students in chemical and mechanical engineering.

Design Procedure for a Gas-fired Cross-flow Heat Exchanger Brian Tausig, 1986

Thermofluids Michael Horsley, Sherwin Keith, 1996-12-07 The two associated subjects of thermodynamics and fluid mechanics are combined in this book to provide the reader with an easy-to-follow text which emphasizes the essential coherence of the material.

Cross-flow, Staggered-tube Heat Exchanger Analysis for High Enthalpy Flows Gary L. Hammock, 2011 Cross flow heat exchangers are a fairly common apparatus employed throughout many industrial processes. For these types of systems,

correlations have been extensively developed. However, there have been no correlations done for very high enthalpy flows as produced by Arnold Engineering Development Center's (AEDC) H2 facility. The H2 facility uses a direct current electric arc to heat air which is then expanded through a converging-diverging nozzle to impart a supersonic velocity to the air. This high enthalpy, high temperature air must be cooled downstream by the use of a cross flow heat exchanger. It is of interest to evaluate the actual performance of the air cooler to determine the effectiveness of possible facility upgrades. In order to characterize cooler effectiveness, a numerical model is built to calculate per-tube-row energy balances using real (temperature and pressure dependent) air and water properties and cross-flow Nusselt number calculations.

Prediction of Thermal Performance of Cross Flow Heat Exchangers Karthik Silaipillayarputhur, Shreyas Muralidharan, Gokul Maharaj Badrinath, 2015-10-09

Distributed Parameter Control Systems Spyros G. Tzafestas, 2013-10-22 Distributed Parameter Control Systems: Theory and Application is a two-part book consisting of 10 theoretical and five application-oriented chapters contributed by well-known workers in the distributed-parameter systems. The book covers topics of distributed parameter control systems in the areas of simulation, identification, state estimation, stability, control (optimal, stochastic, and coordinated), numerical approximation methods, optimal sensor, and actuator positioning. Five applications works include chemical reactors, heat exchangers, petroleum reservoirs/aquifers, and nuclear reactors. The text will be a useful reference for both graduate students and professional researchers working in the field.

Thermodynamics Stephen R. Turns, 2006-03-06 Although the focus of this textbook is on traditional thermodynamics topics, the book is concerned with introducing the thermal-fluid sciences as well. It is designed for the instructor to select topics and seamlessly combine them with material from other chapters. Pedagogical devices include: learning objectives, chapter overviews and summaries, historical perspectives, and numerous examples, questions, problems and lavish illustrations. Students are encouraged to use the National Institute of Science and Technology (NIST) online properties database.

The Transient Response of a Cross-flow Heat Exchanger Franklin Trimby Flaherty, 1958

Transient Performance of Parallel-flow and Cross-flow Direct Transfer Type Heat Exchangers with a Step Temperature Change on the Minimum Capacity Rate Fluid Stream Brian D. Cole, 1995 Parallel and cross-flow with both fluids unmixed, direct transfer type heat exchangers are modeled utilizing a thermal network consisting of nodes and resistors. A commercially available software package, Thermonet, calculates the transient outlet temperatures for a steady-state model introduced to a sudden change (step input) in inlet temperature of the Cmin fluid stream. Both models are validated against analytical solutions provided in literature. Solutions are verified to within a maximum percent mean difference of 4 % of analytical solutions for parallel-flow, and 8 % of analytical solutions for cross-flow heat exchangers. Tables are generated

which provide new dimensionless transient outlet temperature effectiveness values for parallel and cross-flow with both fluids unmixed, heat exchangers. The parallel-flow temperature responses are presented in graphical form for the specific parameters: NTU equal to 0.5, 1.0, and 3.0; C^* equal to 0.2, 0.6, and 1.0; R^* equal to 0.5, 1.0, and 2.0; Cw^* equal to 1.0, 10.0, and 1000.0; and td equal to 0.25, 1.0, and 4.0. The cross-flow temperature responses are presented in graphical form for the same parameters listed above except NTU is equal to 1.0. Discussion regarding the dimensionless parameters' effects on the transient response of the heat exchanger is provided. The transient performance tables provide a quick reference for transient outlet temperature solutions required for practical industrial heat exchanger analysis.--Abstract.

Advances in Thermal Sciences Vivek Kumar Singh, Gautam Choubey, S. Suresh, 2022-11-09 This book presents select peer-reviewed proceedings of the International Conference on Futuristic Advancements in Materials, Manufacturing and Thermal Sciences (ICFAMMT 2022). The book provides an overview of the latest research in the area of thermal sciences such as computational and numerical methods in fluid flow and heat transfer, advanced energy systems, optimization of thermal systems, technologies for space, and aerospace applications, supersonic combustion, two-phase / multiphase flows. The book will be useful for researchers and professionals working in the field of thermal sciences

Heat Exchangers J. Taborek, Geoffrey Frederick Hewitt, Naim Hamdia Afgan, 1983

Heat Transfer and Fluid Friction in Cross Flow Heat Exchangers Royce Jay Laverman, 1964

EBOOK: Fundamentals of Thermal-Fluid Sciences (SI units) Yunus Cengel, John Cimbala, Robert Turner, 2012-01-16 THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid mechanics, and heat transfer packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow development of an understanding of the theoretical underpinnings of thermal sciences. All the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3) This chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives Each chapter begins with an overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals. Developing Physical Intuition A special effort is made to help students develop an intuitive feel for underlying physical mechanisms of natural phenomena and to gain a mastery of solving practical problems that an engineer is likely to face in the real world. New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones. Upgraded Artwork Much of the line artwork in the text is upgraded to

figures that appear more three-dimensional and realistic. MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online Learning Center (www.mheducation.asia/olc/cengelFTFS4e) offers online resources for instructors including PowerPoint® lecture slides, and complete solutions to homework problems. McGraw-Hill's Complete Online Solutions Manual Organization System (<http://cosmos.mhhe.com/>) allows instructors to streamline the creation of assignments, quizzes, and tests by using problems and solutions from the textbook, as well as their own custom material.

Calculations and Measurements on Crossflow Heat Exchangers Roland Görtz,1981

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