

# Chapter 5

## Heat Exchangers

### 5.1 Introduction

Heat exchangers are devices used to transfer heat between two or more fluid streams at different temperatures. Heat exchangers find widespread use in power generation, chemical processing, electronics cooling, air-conditioning, refrigeration, and automotive applications. In this chapter we will examine the basic theory of heat exchangers and consider many applications. In addition, we will examine various aspects of heat exchanger design and analysis.

### 5.2 Heat Exchanger Classification

Due to the large number of heat exchanger configurations, a classification system was devised based upon the basic operation, construction, heat transfer, and flow arrangements. The following classification as outlined by Kakac and Liu (1998) will be discussed:

- Recuperators and regenerators
- Transfer processes: direct contact or indirect contact
- Geometry of construction: tubes, plates, and extended surfaces
- Heat transfer mechanisms: single phase or two phase flow
- Flow Arrangement: parallel flow, counter flow, or cross flow

Figure 1 shows a more comprehensive classification using these basic criteria.

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**Fundamentals of Heat Exchanger Design** Dusan P. Sekulic, Ramesh K. Shah, 2023-11-14 Fundamentals of Heat Exchanger Design A cutting edge update to the most essential single volume resource on the market Heat exchangers are thermal devices which transfer heat between two or more fluids They are integral to energy automotive aerospace and myriad other technologies The design and implementation of heat exchangers is an essential skill for engineers looking to contribute to a huge range of applications Fundamentals of Heat Exchanger Design Second Edition provides a comprehensive insight into the design and performance of heat exchangers After introducing the basic heat transfer concepts and parameters an overview of design methodologies is discussed Subsequently details of design theory of various types of exchangers are presented The first edition established itself as the standard single volume text on the subject The second edition preserves an established in depth approach but reflects some new technological developments related to design for manufacturing compact heat exchangers including novel 3 D printing approaches to heat exchanger design Readers of the second edition of Fundamentals of Heat Exchanger Design will also find A new section on the design for manufacturing of compact heat exchangers A new section on design for additive manufacturing compact heat exchangers Detailed discussions of the design of recuperators and regenerators pressure drop analysis geometric parameters heat transfer correlations and more Fundamentals of Heat Exchanger Design is ideal for practicing engineers as well as for advanced undergraduate and graduate students in mechanical and aerospace engineering energy engineering and related subjects

**Advanced Heat Transfer** Greg F. Naterer, 2021-12-27 The book provides a valuable source of technical content for the prediction and analysis of advanced heat transfer problems including conduction convection radiation phase change and chemically reactive modes of heat transfer With more than 20 new sections case studies and examples the Third Edition broadens the scope of thermal engineering applications including but not limited to biomedical micro and nanotechnology and machine learning The book features a chapter devoted to each mode of multiphase heat transfer FEATURES Covers the analysis and design of advanced thermal engineering systems Presents solution methods that can be applied to complex systems such as semi analytical machine learning and numerical methods Includes a chapter devoted to each mode of multiphase heat transfer including boiling condensation solidification and melting Explains processes and governing equations of multiphase flows with droplets and particles Applies entropy and the second law of thermodynamics for the design and optimization of thermal engineering systems Advanced Heat Transfer Third Edition offers a comprehensive source for single and multiphase systems of heat transfer for senior undergraduate and graduate students taking courses in advanced heat transfer multiphase fluid mechanics and advanced thermodynamics A solutions manual is provided to adopting instructors

**Advances in Boiling and Condensation** Igor Pioro, 2024-02-28 Advances in Boiling and Condensation provides a comprehensive overview of boiling and condensation which are two types of convection heat transfer with phase

change Written by experts in the field the book includes five chapters that address such topics as nucleate pool boiling and flow boiling heat transfer and hydraulic resistance in fuel bundles of nuclear power reactors boiling heat transfer enhancement with graphene based functional coatings water hammer in two phase systems and heat transfer during condensation [Innovative Computing Trends and Applications](#) Pandian Vasant,Igor Litvinchev,José Antonio Marmolejo-Saucedo,2019-01-21 This book provides a survey on research development and trends in innovative computing in communications engineering and computer science It features selected and expanded papers from the EAI International Conference on Computer Science and Engineering 2018 COMPSE 2018 with contributions by top global researchers and practitioners in the field The content is of relevance to computer science graduates researchers and academicians in computer science and engineering The authors discuss new technologies in computer science and engineering that have reduced the dimension of data coverage worldwide reducing the gaps and coverage of domains globally They discuss how these advances have also contributed to strength in prediction analysis and decision in the areas such as Technology Management Social Computing Green Computing and Telecom Contributions show how nurturing the research in technology and computing is essential to finding the right pattern in the ocean of data Focuses on research areas of innovative computing and its application in engineering and technology Includes contributions from researchers in computing and engineering from around the world Features selected and expanded papers from EAI International Conference on Computer Science and Engineering 2018 COMPSE 2018 *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 [Applied Mechanics Reviews](#) ,1996 **INIS Atomindex** ,1983 [Second Law Analysis of Thermal Systems](#) Michael J. Moran,Enrico Sciubba,1987 **Explosion, Shock-Wave and High-Strain-Rate Phenomena of Advanced Materials** Kazuyuki Hokamoto,2021-06-09 Materials processing using explosion shock wave and high strain rate phenomena was developed after WWII and these explosive forming and welding techniques have since been adopted as an accepted industrial technology Such extremely high rate phenomena historically used empirical experiences while the experimental conditions were not well documented due to the difficulties inherent in understanding the real response or behaviour of materials Based upon the recent development of numerical techniques for analysis and the enriched data available on the behaviour of materials it is now possible to predict such high rate phenomena based upon numerical and experimental approaches including optical observation Explosion Shock wave and High strain rate Phenomena of Advanced Materials demonstrates the deformation of various materials at high rate based upon numerical analysis and supported by experimental evidence The book is recommended for researchers and engineers who would like to learn more about the high rate effect of materials and those who need to resolve multi

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**The Design of High-efficiency Turbomachinery and Gas Turbines** David Gordon Wilson, Theodosios Korakianitis, 1998 Descripci n del editor Summary The second edition of a comprehensive textbook that introduces turbomachinery and gas turbines through design methods and examples This comprehensive textbook is unique in its design focused approach to turbomachinery and gas turbines It offers students and practicing engineers methods for configuring these machines to perform with the highest possible efficiency Examples and problems are based on the actual design of turbomachinery and turbines After an introductory chapter that outlines the goals of the book and provides definitions of terms and parts the book offers a brief review of the basic principles of thermodynamics and efficiency definitions The rest of the book is devoted to the analysis and design of real turbomachinery configurations and gas turbines based on a consistent application of thermodynamic theory and a more empirical treatment of fluid dynamics that relies on the extensive use of design charts Topics include turbine power cycles diffusion and diffusers the analysis and design of three dimensional free stream flow and combustion systems and combustion calculations The second edition updates every chapter adding material on subjects that include flow correlations energy transfer in turbomachines and three dimensional design A solutions manual is available for instructors This new MIT Press edition makes a popular text available again with corrections and some updates to a wide audience of students professors and professionals Mit Press

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Heat Transfer Calculations Myer Kutz, 2005-09-15 Packed with laws formulas calculations solutions enhancement techniques and rules of thumb this practical manual offers fast accurate solutions to the heat transfer problems mechanical engineers face everyday Audience includes Power Chemical and HVAC Engineers Step by step procedures for solving specific problems such as heat exchanger design and air conditioning systems heat load Tabular information for thermal properties of fluids gaseous and solids

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