
Heat Transfer Principles and Applications Charles F. Pooch 2003 Heat Transfer Principles and Applications is a unique resource that periods on the design and implementation of industrial heat exchangers. It provides the background needed to understand and master the commercial software tools used by professional engineers designing heat exchangers. The book includes case studies on the application of the software tools to real exchanger designs, which demonstrate their effectiveness in the design process. The book also covers the latest improvements to heat exchanger design methods, including revised guidelines for selecting exchanger types and revised results for the engineering equations used in the design process. The book is intended for engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem. The book is a practical guide to the design of heat exchangers and the use of computer software tools in the design process. It provides a comprehensive overview of the latest developments in heat exchanger design methods and applications, as well as a detailed analysis of the commercial software tools used in the design process. The book is written for chemical engineers and other professionals who use computer software tools in their work, and it is suitable for use as a textbook or reference book. The book is also a valuable resource for researchers and practitioners in the field of heat transfer and fluid flow. The book is intended for engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem. The book is a practical guide to the design of heat exchangers and the use of computer software tools in the design process. 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Advanced Models and Control Techniques for Thermal Systems with Heat Exchangers (Mario R. Eden) 2018-07-19 This book provides core methods of essential modelling of heat exchangers, which can be used to perform design and operation calculations of exchangers described theoretically in complex flow systems. It also provides heat transfer coefficient selection and heat transfer to heat exchangers. A large part of the book is devoted to experimental testing of heat exchangers, and methods for assessing the subject measurement uncertainty are presented. Further, it describes a novel method for parallel determination of the single component correlation on both sides of the heat exchanger model, based on the accurate heat transfer method presented in this book. The subject model is intended for heat exchanger designers, and can also be used for fundamental study of heat exchanger processes.