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The present text is aimed at giving the students a substantial feel of the fundamentals of heat transfer applied to process industry. Though the introduction of the material is made at the undergraduate level for a first course in Process Heat Transfer', it includes enough advanced material for postgraduate courses on Process Heat Transfer' or Heat Exchangers'. The text starts with summary of single phase heat transfer. Subsequently classification, selection and basic theory of heat transfer equipment are explained. Based on this, traditional heat exchangers as well as stirred tanks are treated in detail. Special emphasis has been laid on plate type heat exchangers. The second part introduces two-phase heat transfer followed by apparatus dealing with phase change such as condensers, evaporators, reboilers and cooling towers. Finally, recent advances in process optimization through pinch technology and energy analysis along with transient response of heat exchangers are introduced. The textbook stresses on design approach.

Taking greater advantage of powerful computing capabilities over the last several years, the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering. Albright ' s Chemical Engineering Handbook represents a reliable source

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of updated methods, applications, and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations. Well-rounded, concise, and practical by design, this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties. Each chapter provides a clear review of basic information, case examples, and references to additional, more in-depth information. They explain essential principles, calculations, and issues relating to topics including reaction engineering, process control and design, waste disposal, and electrochemical and biochemical engineering. The final chapters cover aspects of patents and intellectual property, practical communication, and ethical considerations that are most relevant to engineers. From fundamentals to plant operations, Albright ' s Chemical Engineering Handbook offers a thorough, yet succinct guide to day-to-day methods and calculations used in chemical engineering applications. This handbook will serve the needs of practicing professionals as well as students preparing to enter the field.

Heat exchangers with minichannel and microchannel flow passages are becoming increasingly popular because of their ability to remove large heat fluxes under single-phase and two-phase applications. This book serves as a sourcebook for those individuals involved in the design processes of microchannel flow passages in a heat exchanger. This book manages to present its findings in a manner that is directly useful to a designer, while a researcher is able to use the information in developing new models, or in identifying research needs. Each chapter is accompanied by a 'real life' case study. First book published solely dealing with heat and fluid flow in minichannels and microchannels.

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CD-ROM contains: Equations and relations (models) for thermal circuit modeling.

Process Heat Transfer is a reference on the design and implementation of industrial heat exchangers. It provides the background needed to understand and master the commercial software packages used by professional engineers in the design and analysis of heat exchangers. This book focuses on types of heat exchangers most widely used by industry: shell-and-tube exchangers (including condensers, reboilers and vaporizers), air-cooled heat exchangers and double-pipe (hairpin) exchangers. It provides a substantial introduction to the design of heat exchanger networks using pinch technology, the most efficient strategy used to achieve optimal recovery of heat in industrial processes. Utilizes leading commercial software. Get expert HTRI Xchanger Suite guidance, tips and tricks previously available via high cost professional training sessions. Details the development of initial configuration for a heat exchanger and how to systematically modify it to obtain an efficient final design. Abundant case studies and rules of thumb, along with copious software examples, provide a complete library of reference designs and heuristics for readers to base their own designs on.

A description of the design, construction and applications of unfired heat exchangers used in the process industries, giving guidance on the merits and limitations of the different types, details of their materials of construction and cost and numerous examples of design calculations.

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

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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.

This Brief addresses the phenomena of heat transfer enhancement. A companion edition in the SpringerBrief Subseries on Thermal Engineering and Applied Science to three other monographs including “ Critical Heat Flux in Flow Boiling in Microchannels, ” this volume is idea for professionals, researchers, and graduate students concerned with electronic cooling.

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