

in the petroleum-refining and chemical industries; as steam generators, condensers, boiler feedwater heaters, and oil coolers in power plants; as condensers and evaporators in some air-conditioning and refrigeration applications; in waste heat recovery applications with heat recovery from liquids and condensing fluids; and in environmental control.

Next, major components of shell-and-tube exchangers are briefly described.

Tubes. Round tubes in various shapes are used in shell-and-tube exchangers. Most common are the tube bundles[†] with straight and U-tubes (Fig. 1.5) used in process and power industry exchangers. However, sine-wave bend, J-shape, L-shape or hockey sticks, and inverted hockey sticks are used in advanced nuclear exchangers to accommodate large thermal expansion of the tubes. Some of the enhanced tube geometries used in shell-and-tube exchangers are shown in Fig. 1.7. Serpentine, helical, and bayonet are other tube shapes (shown in Fig. 1.8) that are used in shell-and-tube exchangers. In most applications, tubes have single walls, but when working with radioactive,

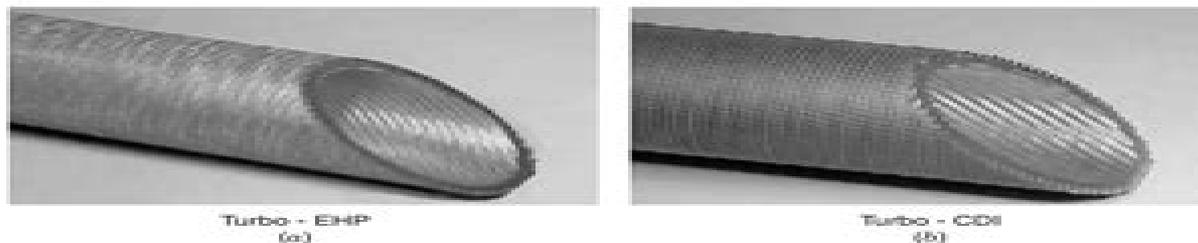


FIGURE 1.7 Some enhanced tube geometries used in shell-and-tube exchangers: (a) internally and externally enhanced evaporator tube; (b) internally and externally enhanced condenser tube. (Courtesy of Wolverine Tube, Inc., Decatur, AL.)



FIGURE 1.8 Additional tube configurations used in shell-and-tube exchangers.

[†] A *tube bundle* is an assembly of tubes, baffles, tubesheets and tie rods, and support plates and longitudinal baffles, if any.

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Heat Exchangers Sadik Kakaç, Hongtan Liu, Anchasa Pramuanjaroenkij, 2012-03-01 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 updated with new problem sets and examples Heat Exchangers Selection Rating and Thermal Design Third Edition presents a

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Heat Exchanger Design Handbook Kuppan Thulukkanam, 2013-05-20 This comprehensive reference covers important aspects of heat exchangers HEs 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 This second edition includes over 400 drawings diagrams tables and equations includes updated material throughout coverage of the latest advances in HE design techniques expanded and updated coverage of materials selection and a look at the newest fabrication techniques

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Chemical Engineering Design Gavin Towler, Ray Sinnott, 2021-07-14 Chemical Engineering Design Principles Practice and Economics of Plant and Process Design is one of the best known and most widely adopted texts available for students of chemical engineering The text deals with the application of chemical engineering principles to the design of chemical processes and equipment The third edition retains its hallmark features of scope clarity and practical emphasis while providing the latest US codes and standards including API ASME and ISA design codes and ANSI standards as well as coverage of the latest aspects of process design operations safety loss prevention equipment selection and more The text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical industrial design projects drawn from a diverse range of process industries NEW TO THIS EDITION Includes new content covering food pharmaceutical and biological processes and commonly used unit operations Provides updates on plant and equipment costs regulations and technical standards Includes limited online access for students to Cost Engineering's Cleopatra Enterprise cost estimating software

Advances in Thermal Design of Heat Exchangers Eric M. Smith, 2005 The primary objective in any engineering design process has to be the elimination of uncertainties In thermal design of heat exchangers there are presently many stages in which assumptions in mathematical solution of the design problem are being made Accumulation of these assumptions may introduce variations in design The designer needs to understand where these inaccuracies may arise

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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

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