

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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