

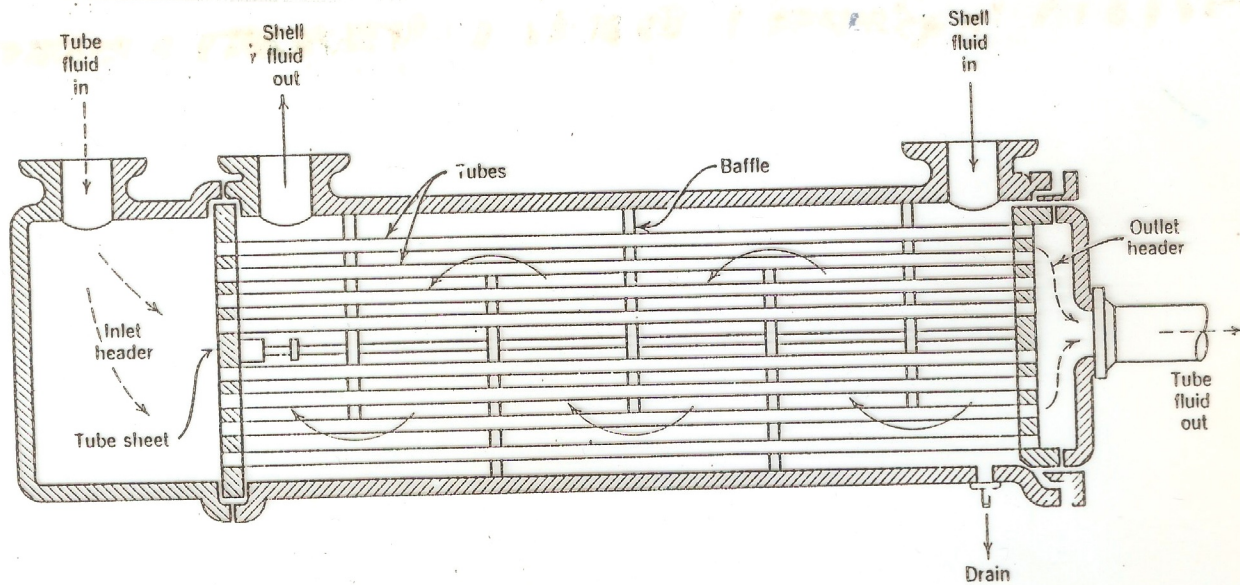


Figure 15.2. Single-pass shell-and-tube heat exchanger.

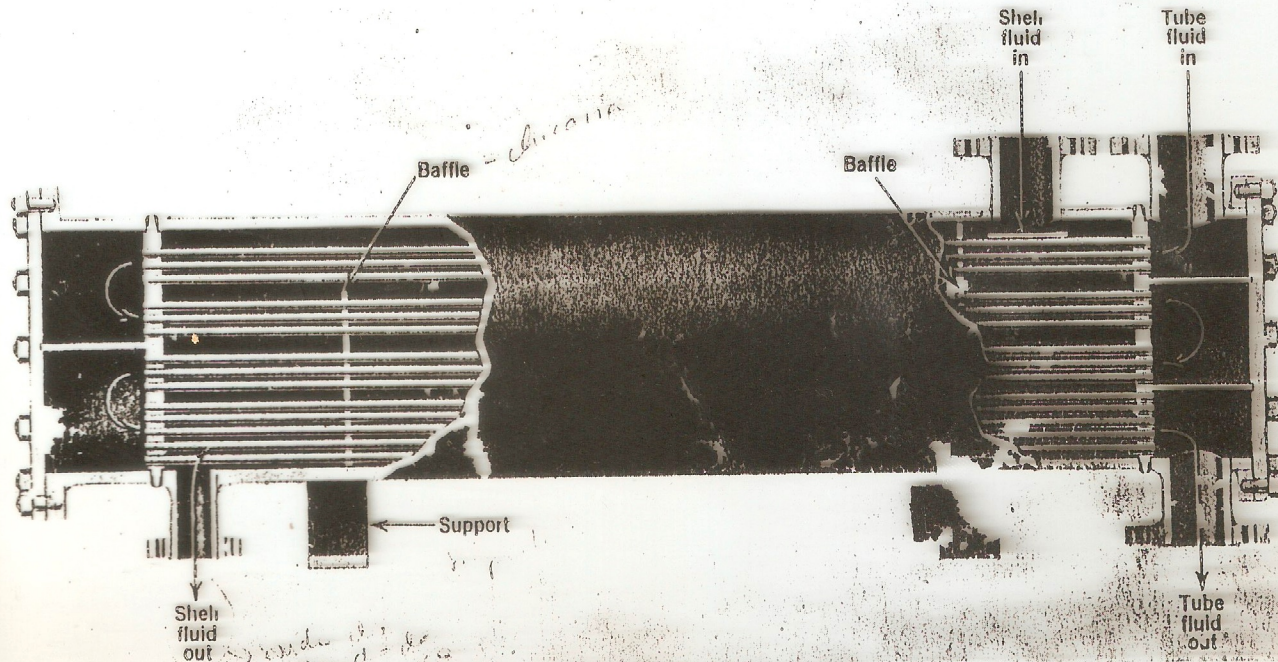


Figure 15.3. Heat exchanger with four tube passes and one shell pass. (Courtesy The Whitlock Manufacturing Co.)

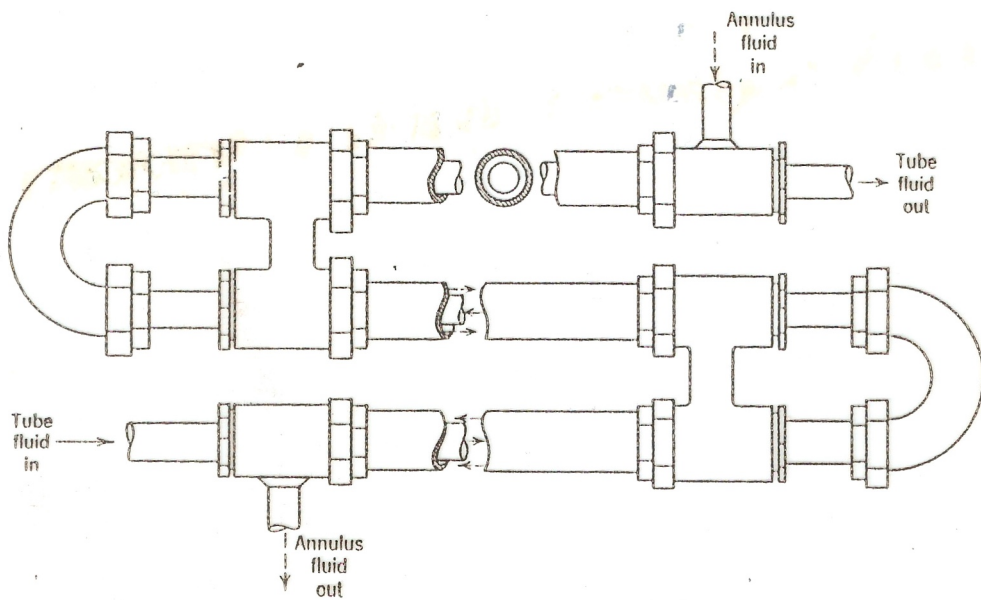
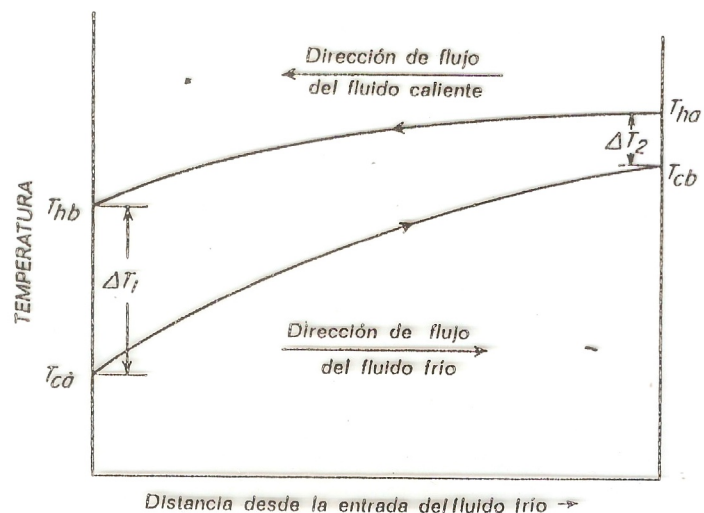
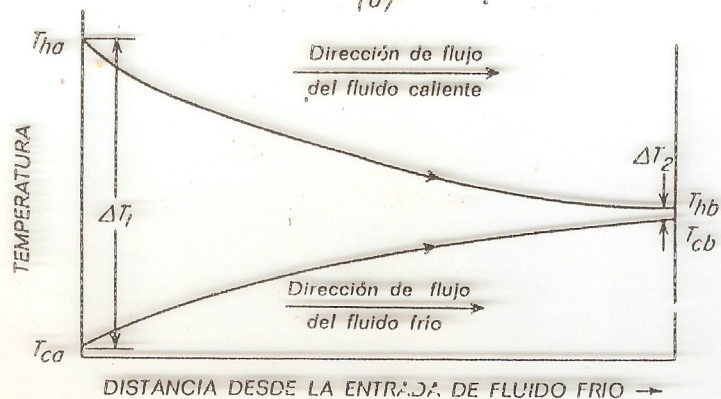


Figure 15.1. Double-pipe exchanger.

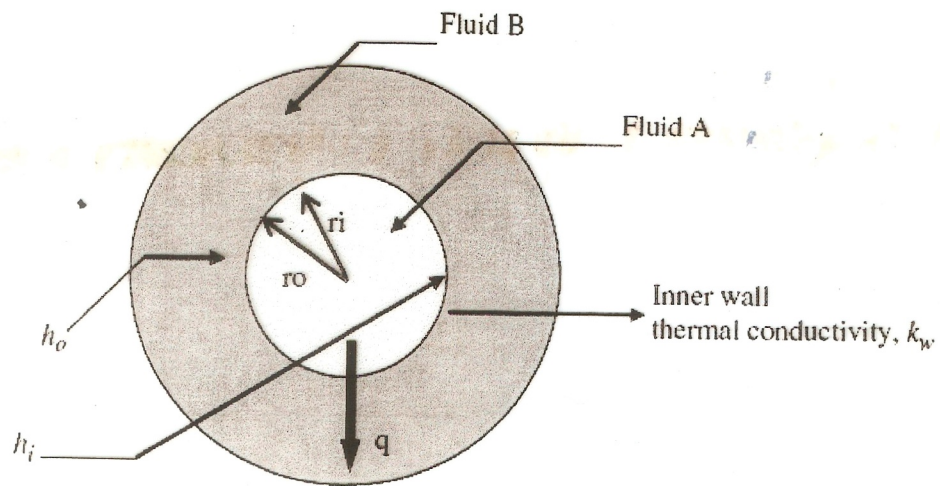


(a)



(b)

Fig. 11-4. Temperaturas para el flujo en contracorriente y en corrientes paralelas: (a) Flujo en contracorriente. (b) Flujo en corrientes paralelas.



Direction of heat flow if fluid "A" is hotter than fluid "B"

Figure 8 Schematic representation of a double pipe heat exchanger

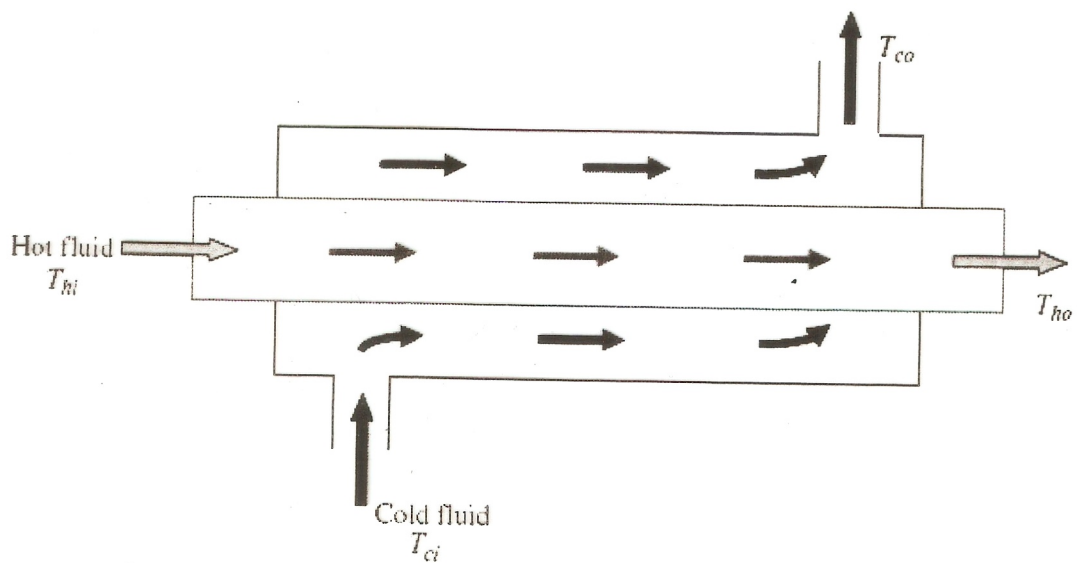


Figure 9 Schematic representation of a co-current-flow heat exchanger

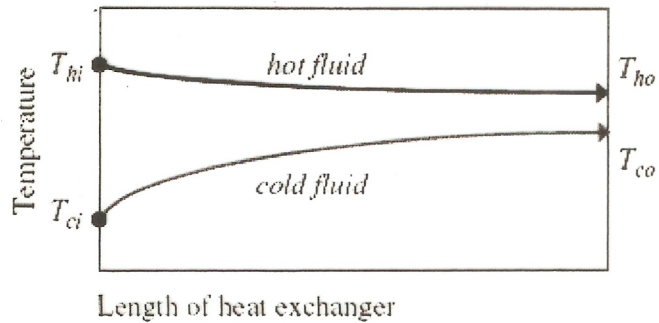


Figure 11 *Temperature profile – co-current-flow heat exchanger*

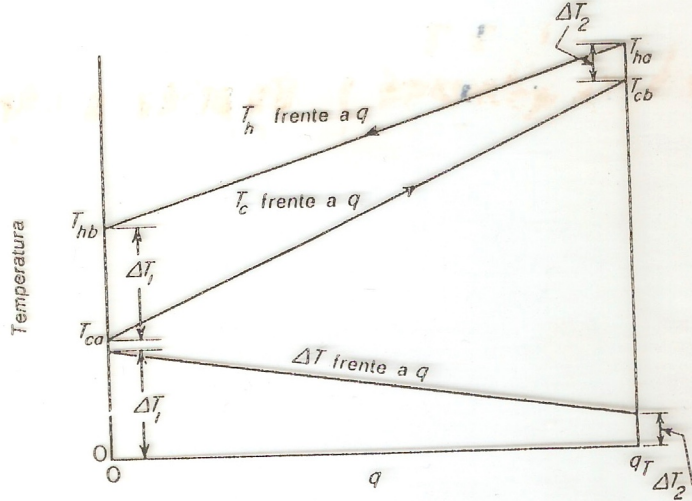


Fig. 11-5. Variación de la temperatura con la velocidad de flujo de calor para la operación en contracorriente.



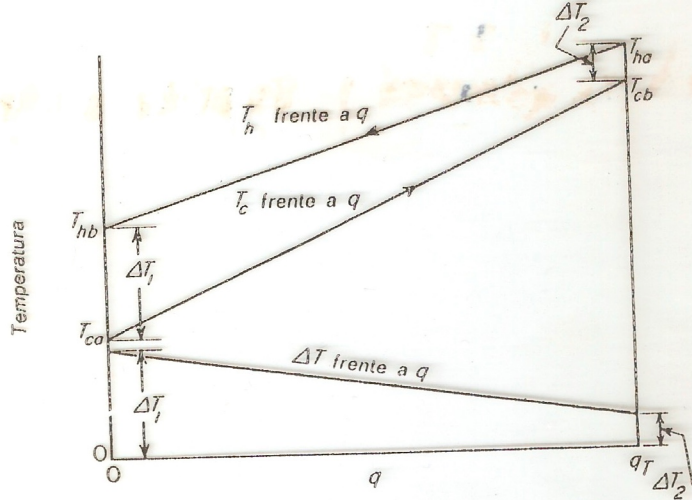
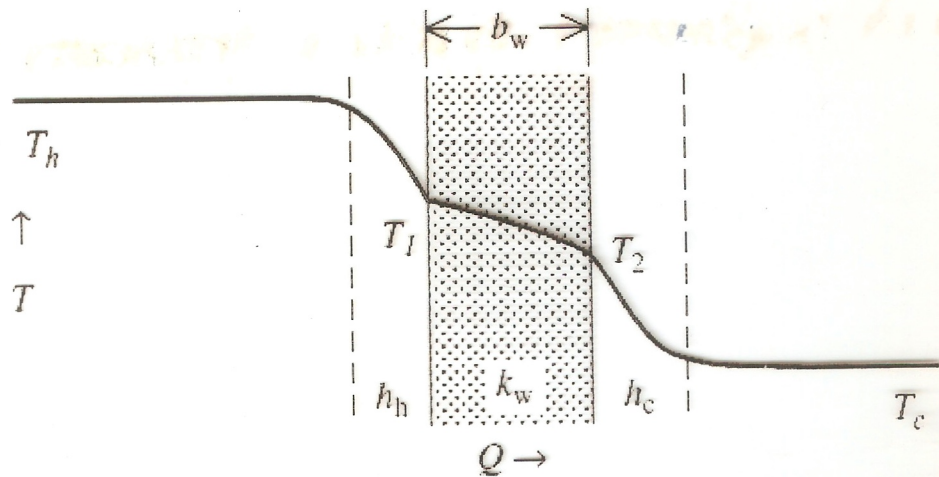
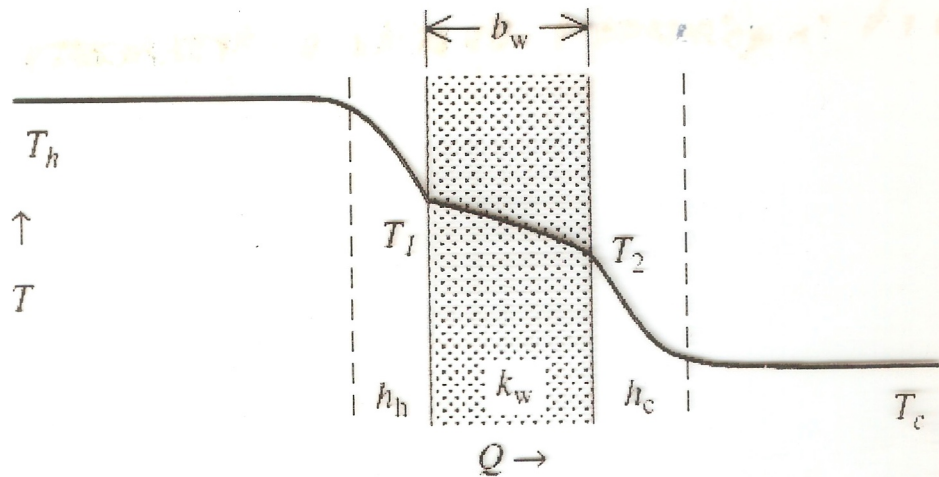


Fig. 11-5. Variación de la temperatura con la velocidad de flujo de calor para la operación en contracorriente.



Heat transfer from a hot fluid, through a wall, to a cold fluid



Heat transfer from a hot fluid, through a wall, to a cold fluid