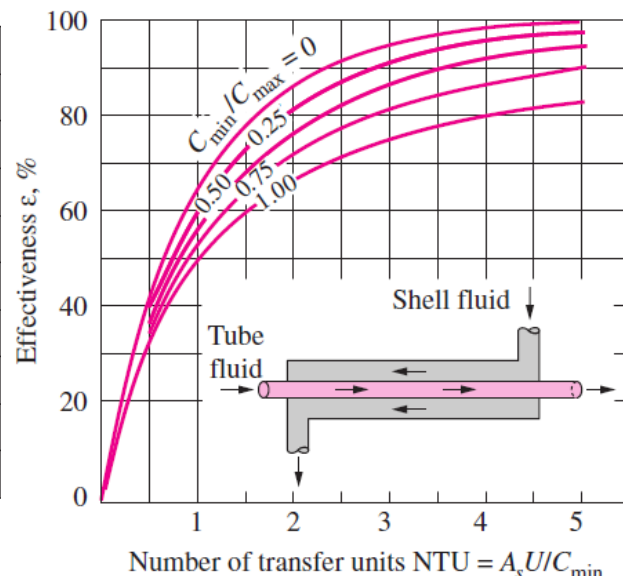
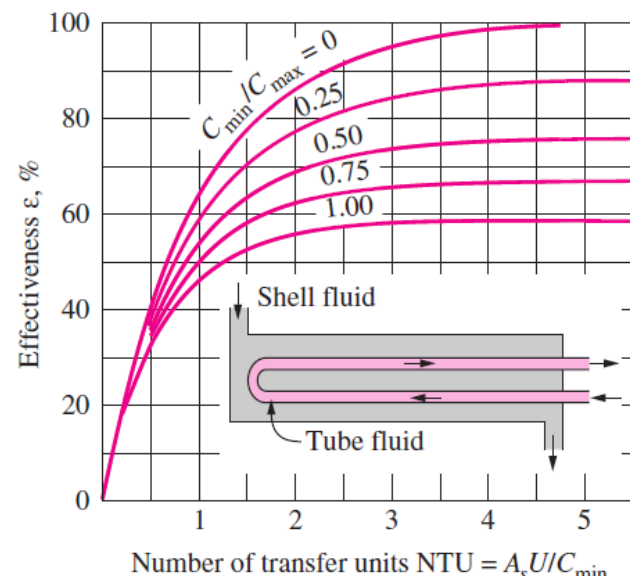


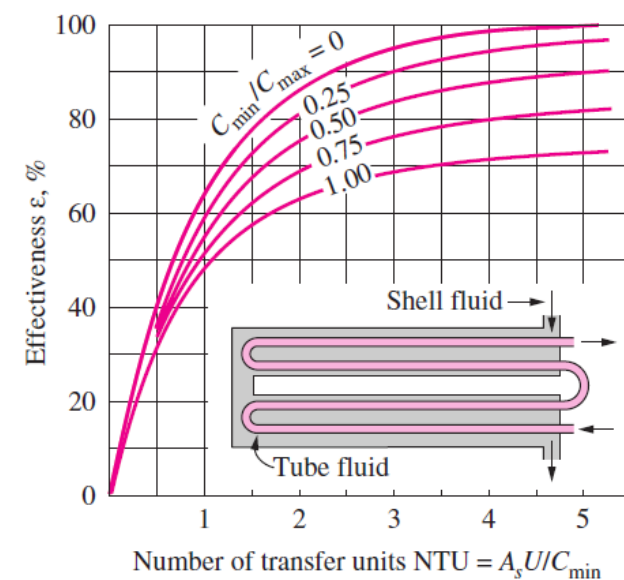
(a) Parallel-flow



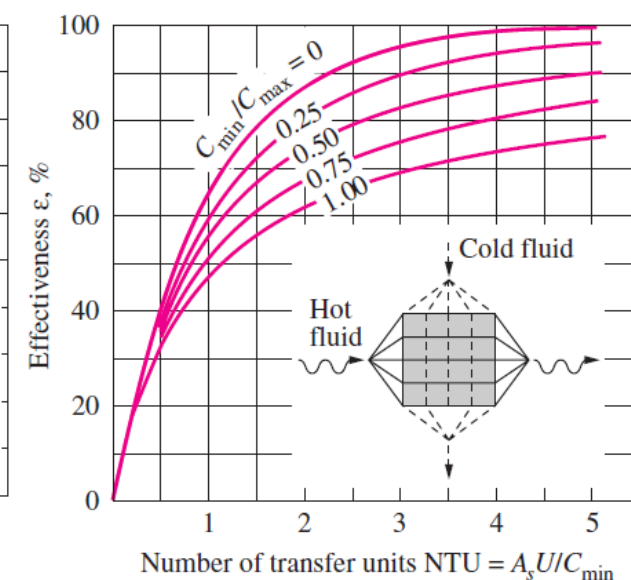
(b) Counter-flow **Figure 10.13**



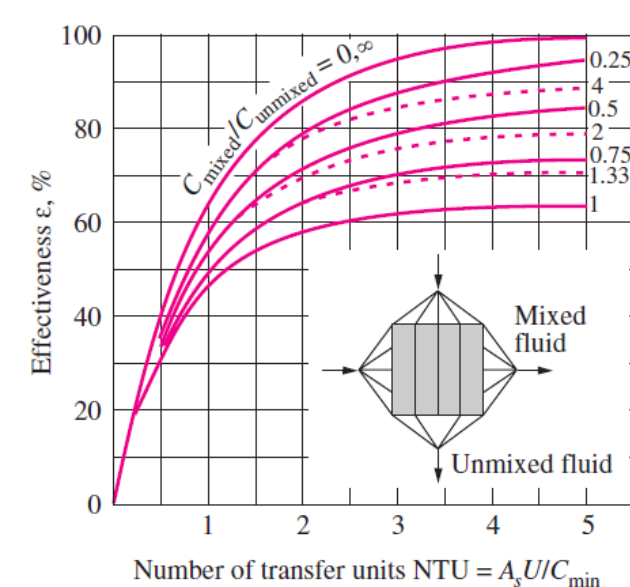
(c) One-shell pass and 2, 4, 6, ... tube passes



(d) Two-shell passes and 4, 8, 12, ... tube passes



(e) Cross-flow with both fluids unmixed



(f) Cross-flow with one fluid mixed and the other unmixed

**Figure 10.15**