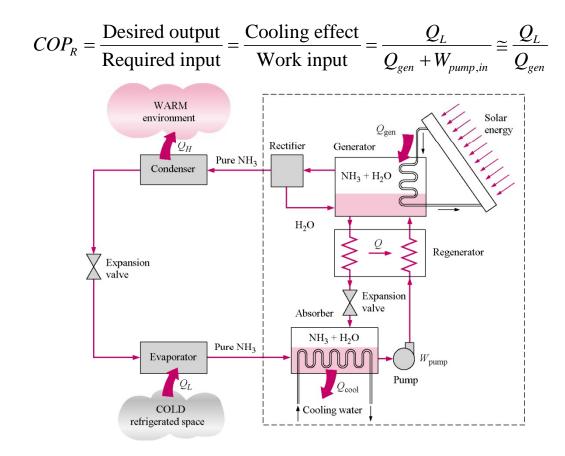
Absorption Refrigeration Systems

Another form of refrigeration that becomes economically attractive when there is a source of inexpensive heat energy at a temperature of 100 to 200°C is absorption refrigeration, where the refrigerant is absorbed by a transport medium and compressed in liquid form. The most widely used absorption refrigeration system is the ammonia-water system, where am-monia serves as the refrigerant and water as the transport medium. The work input to the pump is usually very small, and the COP of absorption refriger-ation systems is defined as



Thermoelectric Refrigeration Systems

A refrigeration effect can also be achieved without using any moving parts by simply passing a small current through a closed circuit made up of two dissimilar materials. This effect is called the *Peltier effect*, and a refrigerator that works on this principle is called a *thermoelectric refrigerator*.

