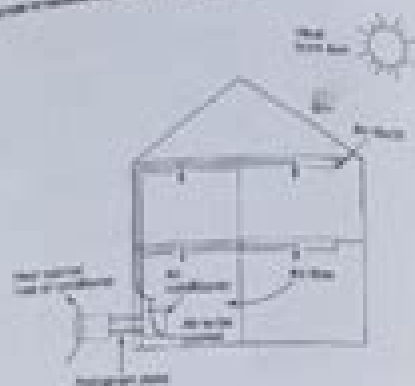




to maintain a comfortable environment inside the house. By analyzing the heat transfer and air flow, we learn what heat transfer (and air flow) is required for the house to be a comfortable place. A thermodynamic analysis will tell us the conditions needed to maintain the temperature and relative humidity, and that analysis will tell us the size of the fan required to push the air in, the conditioner and the ducts needed to distribute the cooled air throughout the house.

Perhaps we want to focus on the air conditioner itself. Figure 1.2 is a schematic of two heat exchangers, a compressor, and a valve. A thermodynamic analysis would tell us how much refrigerant, what size a second source of cooling, a heat transfer analysis would tell us the heat exchangers. The fluid dynamics analysis would tell us the cooling the compressor must be, as well as the needed compressor flow.

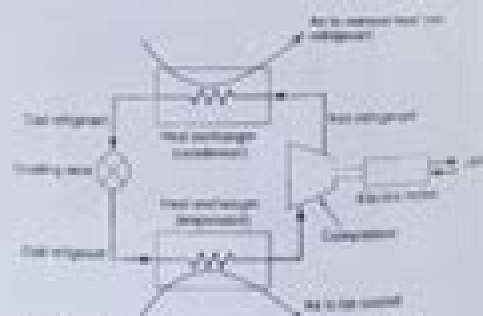


FIGURE 1.2 Schematic of a vapor-compression refrigeration cycle.



FIGURE 1.3 Schematic of a building with multiple rooms.

It is a simple task, consider a cooling system used in a computer (Figure 1.4). The computer chips and power supply must be cooled so that the reliability of the system is not compromised. One common cooling approach is to force air through the computer case to remove unwanted heat. A thermodynamic analysis of such a case, power supply, and compressor as well as the amount of energy that must be removed from inside the computer case so that the temperature of the air entering the electronic components will not exceed a given limit. That analysis would tell us what fan and design, too, is often cooling engineers are needed to maintain the components at a safe temperature. Fluid dynamics will tell us the fan size needed to force air through an air filter and then for air over the components and out of the computer case.

1.2 THERMAL AND FLUID SYSTEMS ANALYSIS AND ENGINEERING

Additional disciplines, similar to those given in the previous section, can be given for large industrial systems (e.g., power plants, oil refineries, chemical processing plants) and related processes (e.g., heat treatment of metals). Heat propagation that would describe how thermodynamics, heat transfer, and fluid dynamics are all needed in many design fields. It is the integrated use of these three disciplines that is required for rational and complete analysis of many systems.

Whether the engineer is given an assignment to design a new device or modification to an existing process or to predict the performance of a device, the objectives of the design process must be very clear. Subsequent, which aspect of the device, process, or system in which to focus must be well defined. A systematic approach to the whole analysis is needed. Figure 1.5 shows a flow diagram of the design process. The design process typically takes three, analyzing and engineering a device from scratch. We always begin with the physical system (e.g., the engine of a car). Then we model. The engineer's job is, first, to describe the physical system into a physical model and, second, to describe the physical model with a mathematical model. The actual physical system may be so complex that it is impossible to fully describe each part within process. However, we require that device as a model, a picture, or better than an abstraction and equations to simplify the system sufficiently so that it can be modeled. Once a physical model is developed, then physical laws that govern the process (e.g., a force, momentum, mass, or energy balance) are used to create the

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