**FIGURE 2.1**

Heat conduction through a slab.

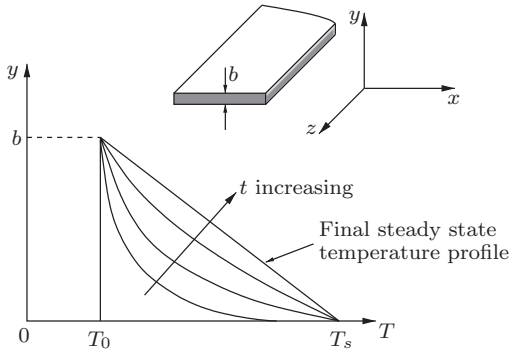


**FIGURE 2.2**

The heat flux vector normal to an isotherm in a two-dimensional coordinate system.

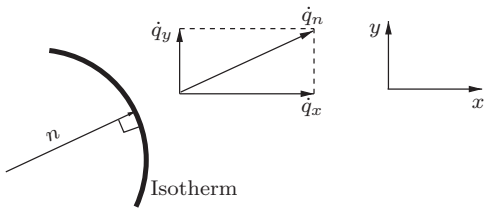


**FIGURE 2.3**

Differential control volume, ($\delta x \delta y \delta z$), for conduction analysis in Cartesian coordinates.

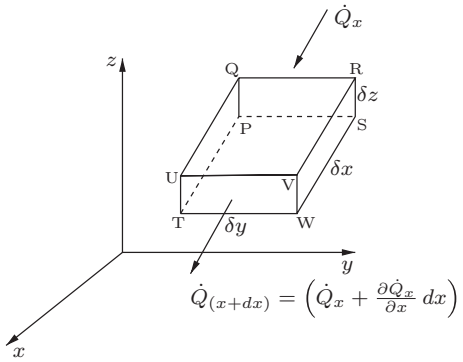
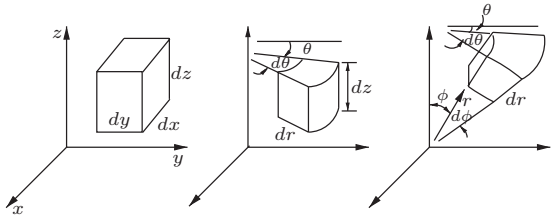


**FIGURE 2.4**

Elemental volume in (a) Cartesian coordinates, (b) cylindrical coordinates, (c) spherical coordinates.




(a) $(x, y, z)$ (b) $(r, \theta, z)$ (c) $(r, \theta, \phi)$

**FIGURE 2.5**

Thermal conductivity variation with temperature, for some gases.

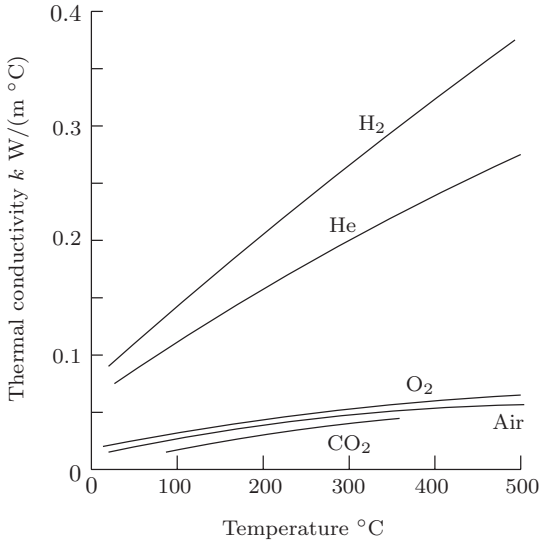


**FIGURE 2.6**

Thermal conductivity variation with temperature, for some liquids.

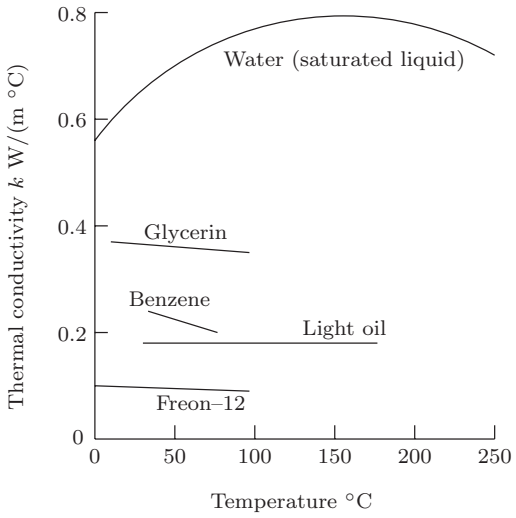


**FIGURE 2.7**

Thermal conductivity of some metals.

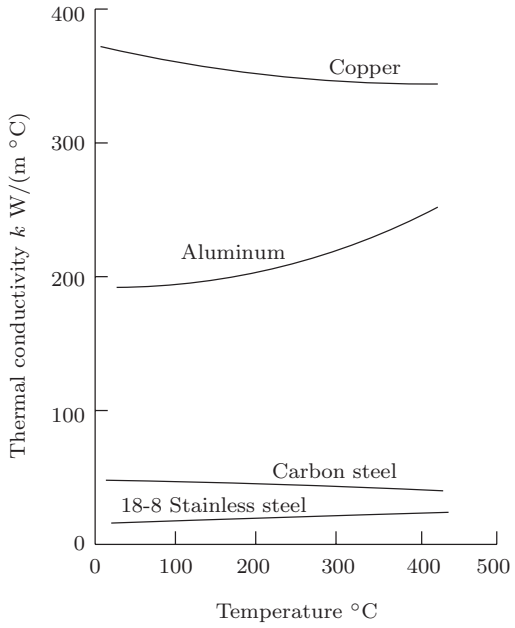


**FIGURE 2.8**

Thermal conductivities of some cryogenic insulation materials: (a) multilayer insulation, (b) opacified powders, (c) glass fibers, (d) powders, (e) foams, powders and fibers.