

Figure 49-6
Lattice structure of an N-type material. (Source: Delmar/Cengage Learning)

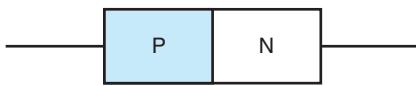


Figure 49-7
PN junction. (Source: Delmar/Cengage Learning)

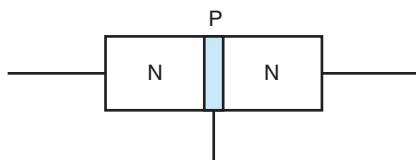


Figure 49-8
Transistor. (Source: Delmar/Cengage Learning)

SUMMARY

- ▶ Conductors are materials that provide an easy path for electron flow.
- ▶ The best conductors are silver, copper, and aluminum.
- ▶ Valence electrons are electrons located in the outermost orbit or shell of an atom.
- ▶ Conductors are made from materials that generally contain 1 or 2 valence electrons.