

11.2 (a) Ferrous alloys are used extensively because:

- (1) Iron ores exist in abundant quantities.
- (2) Economical extraction, refining, and fabrication techniques are available.
- (3) The alloys may be tailored to have a wide range of properties.

(b) Disadvantages of ferrous alloys are:

- (1) They are susceptible to corrosion.
- (2) They have a relatively high density.
- (3) They have relatively low electrical conductivities.