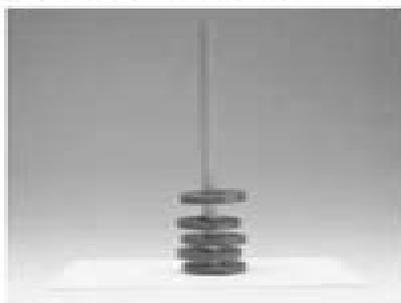


Practice Problems

24.1 Magnets: Permanent and Temporary
pages 643–651

page 647

- If you hold a bar magnet in each hand and bring your hands close together, will the force be attractive or repulsive if the magnets are held in the following ways?
 - the two north poles are brought close together
repulsive
 - a north pole and a south pole are brought together
attractive
- Figure 24-7 shows five disk magnets floating above each other. The north pole of the top-most disk faces up. Which poles are on the top side of each of the other magnets?



■ Figure 24-7

south, north, south, north

- A magnet attracts a nail, which, in turn, attracts many small tacks, as shown in Figure 24-3 on page 645. If the north pole of the permanent magnet is the left end, as shown, which end of the nail is the south pole?
the bottom (the point)

- Why do magnetic compasses sometimes give false readings?
because Earth's magnetic field is distorted by objects made of iron, nickel, or cobalt in the vicinity of the compass, and by ore deposits of these same metals

page 650

- A long, straight, current-carrying wire runs from north to south.
 - A compass needle placed above the wire points with its north pole toward the east. In what direction is the current flowing?
from south to north
 - If a compass is put underneath the wire, in which direction will the compass needle point?
west
- How does the strength of a magnetic field, 1 cm from a current-carrying wire, compare with each of the following?
 - the strength of the field that is 2 cm from the wire
Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be twice as strong as the magnetic field at 2 cm.
 - the strength of the field that is 3 cm from the wire
Because magnetic field strength varies inversely with the distance from the wire, the magnetic field at 1 cm will be three times as strong as the magnetic field at 3 cm.

Physics Principles Problems Solutions Manual Chapter 24

IM Harris



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