22 Electrostatics

Answers and Solutions for Chapter 22

Reading Check Questions

- 1. Electrostatics is the term for electricity at rest.
- 2. Electrical forces cancel out, leaving weaker gravity predominant.
- The nucleus and its protons are positively charged; electrons are negatively charged.
- The charge of one electron is identical to the charge on all electrons, and is equal and opposite for protons.
- 5. Normally, the net charge is zero.
- A positive ion is an atom with one or more fewer electrons than protons. A negative ion is an atom with one or more extra electrons.
- Conservation of charge means charge cannot be created or destroyed, but merely transferred.
- Quantized means that there is a smallest possible amount of charge of which all other amounts of charge are multiples.
- 9. One quantum unit of charge is that of an electron (or proton).
- 10. A coulomb is much larger than the charge of an electron; one coulomb is the charge of 6.25×10^{19} electrons!
- 11. Both laws are inverse-square laws. How they differ is mainly that gravitation is only attractive, whereas electrical forces can repel.
- 12. Atoms of metals are good conductors because of their free outer electrons
- Atoms of insulators are poor conductors because of their strong hold on their electrons.
- 14. A semiconductor can be made to conduct or insulate.
- 15. A transistor is composed of thin layers of semiconducting materials. Functions include controlling the flow of electrons, amplifying signals, and acting as switches.
- 16. Flow in a superconductor is without electrical resistance.

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C Cleary

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