Physical Science—Chapter 16 Study Guide Electronics

- Foundations to electronics
 - Definition of electronics: study of the behavior and motion of electrons in a vacuum or special materials such as semiconductors
 - b. Vacuum tube—general term for any "vacuumized" glass tube with containing electrodes; because the tube does not contain air, electrons are able to flow from one electrode to the other when voltage is applied to them
 - Cathode—negative electrode
 - ii. Anode-positive electrode
 - Special types of vacuum tubes
 - Cathode-ray tube—any simple vacuum tube designed so that electrons would flow through the vacuum when voltage is applied
 - Crookes Tube—the earliest version of this tube—Crookes coated the inside of the tube with a substance that glowed when the electrons struck it
 - Picture tube—a more advance version of the Crookes tube which allowed the beam of electrons to be directed in such a way to produce a picture on the side of the tube where the electrons strike
 - X-ray tube— a vacuum tube with extra high voltage so that x-rays are produces when the electrons strike the anode
 - Diode—a vacuum tube which contains a filament which serves as the cathode and a plate which serves as the anode
 - Thermionic emission—the flow of electrons which have been knocked off the filament to the plate
 - Diodes are useful because they can convert AC to DC
 - Triode—a vacuum tube containing a chargeable grid between the cathode and anode
 - 1. Can be used as a switch, to cut off the flow of electrons
 - Can be used to amplify or lessen the flow of electrons
- II. Semiconductors
 - Semiconductors are materials that are neither a good conductor nor a good insulator
 - b. The most common are silicon and germanium
 - Doping—process of adding another material to a semiconductor to change its behavior
 - N-type semiconductor—semiconductor with extra electrons (negative charge)
 - P-type semiconductor—semiconductor with a deficiency of electrons (positive charge)

Physical Science Chapter 16 Section Answers

Roman Wölfel

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