

Physical Science—Chapter 16 Study Guide Electronics

- I. Foundations to electronics
 - a. 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
 - i. Cathode—negative electrode
 - ii. Anode—positive electrode
 - c. Special types of vacuum tubes
 - i. Cathode-ray tube—any simple vacuum tube designed so that electrons would flow through the vacuum when voltage is applied
 - 1. 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
 - 2. 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
 - 3. X-ray tube— a vacuum tube with extra high voltage so that x-rays are produces when the electrons strike the anode
 - ii. Diode—a vacuum tube which contains a filament which serves as the cathode and a plate which serves as the anode
 - 1. Thermionic emission—the flow of electrons which have been knocked off the filament to the plate
 - 2. Diodes are useful because they can convert AC to DC
 - iii. 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
 - 2. Can be used to amplify or lessen the flow of electrons
- II. Semiconductors
 - a. Semiconductors are materials that are neither a good conductor nor a good insulator
 - b. The most common are silicon and germanium
 - c. Doping—process of adding another material to a semiconductor to change its behavior
 - i. N-type semiconductor—semiconductor with extra electrons (negative charge)
 - ii. P-type semiconductor—semiconductor with a deficiency of electrons (positive charge)

Physical Science Chapter 16 Section Answers

Angie Papple Johnston



Physical Science Chapter 16 Section Answers:

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Physical Science Chapter 16 Section Answers** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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