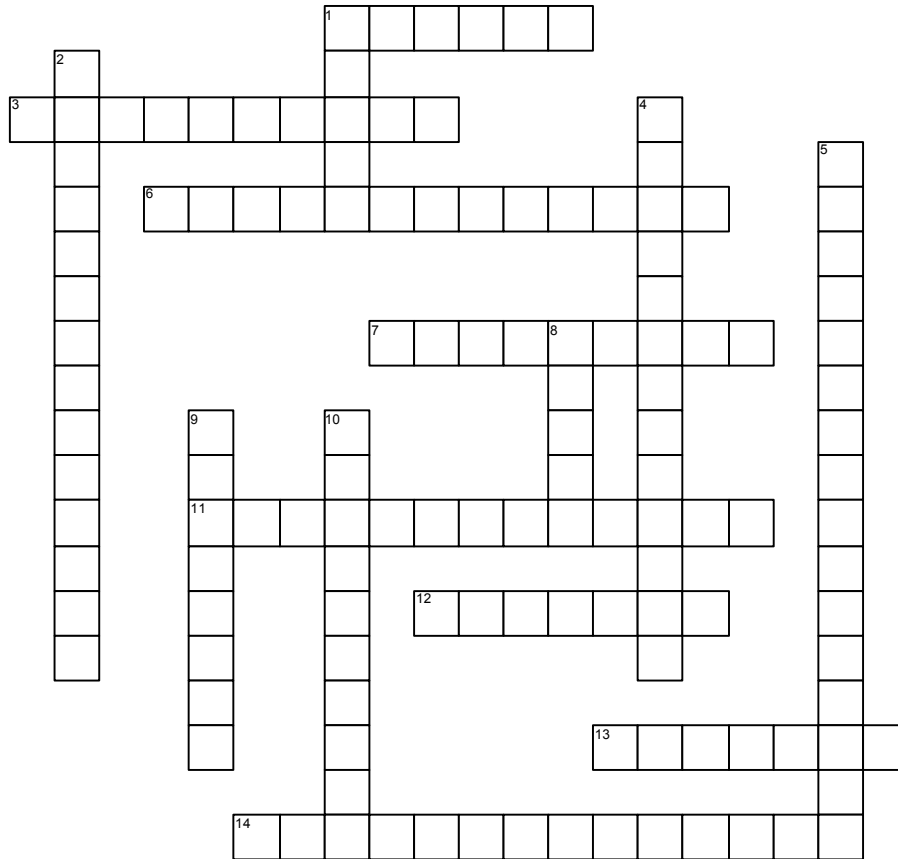


Electronic Fundamentals

Chapter 13



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ACROSS

- 1 When another material is added to a semiconductor material in very small amounts, it is called _____.
- 3 A _____ is a specially constructed diode designed to operate with a reverse-bias current.
- 6 _- _____ is produced by doping silicon or germanium with the element boron or the element indium
- 7 _____ is an example of a semiconductor.
- 11 _- _____ is silicon or germanium that is doped with an element such as phosphorus, arsenic, or antimony, each having five electrons in its outer orbit.
- 12 The negative electrode of a diode is called the _____.
- 13 _____ is an example of a semiconductor.
- 14 Another name for a clamping diode is a _____.

DOWN

- 1 A _____ is an electrical one-way check valve made by combining a P-type material and an N-type material.
- 2 _____ are materials that contain exactly four electrons in the outer orbit of their atom structure and are, therefore, neither good conductors nor good insulators.
- 4 A diode connected across the terminals of a coil to control voltage spikes is called a _____.
- 5 Another name for a clamping diode is a _____.
- 8 The positive electrode of a diode is called the _____.
- 9 The point where the two types of materials join in a diode is called the _____.
- 10 The doping elements are called _____; therefore, after their addition, the germanium and silicon are no longer considered pure elements.