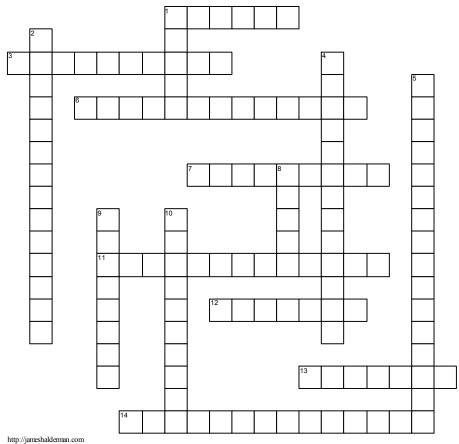
## **Electronic Fundamentals**

Chapter 12



## **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 is an example of a semiconductor. 14 Another name for a clamping diode is a \_\_\_\_\_

## DOWN

4	A is an electrical and well also also also also also
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.
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