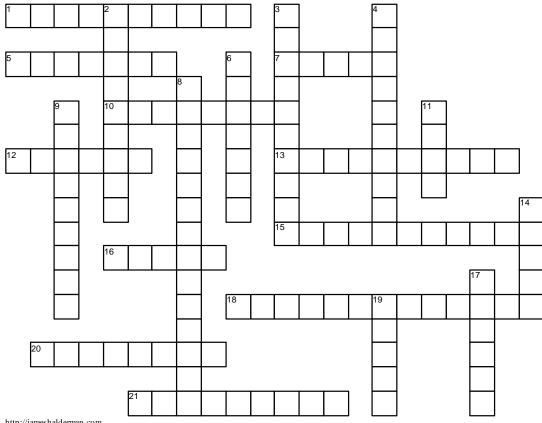
Electronic Fundamentals

Chapter 45



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ACROSS

1 A ____ is a specially constructed diode designed to operate with a reverse-bias current. 5 _____ is an example of a semiconductor. 7 _-___ material is produced by doping silicon or germanium with the element boron or the element 10 An _____ is an electronic circuit that changes DC into AC. 12 ____ means to operate an electronic device, such as a computer, for a period from several hours to 13 A _____ (in a circuit) is a semiconductor device that can act as an electrical switch, act as an amplifier, or regulate current. 15 Another name for a clamping diode is a ___ 16 A ____ is an electrical one-way check valve made by combining a P-type material and an N-type material. 18 A diode connected across the terminals of a coil to 20 The point where the two types of materials join in a diode is called the _ 21 Another name for a clamping diode is a ___

DOWN

 2 A bridge is a group of diodes that is used to change an AC circuit into a DC circuit. 3 The doping elements are called; therefore, after their addition, the germanium and silicon are no longer considered pure elements. 4 A is a semiconductor material such as silicon, that has been doped to provide a given resistance. 6 The negative electrode of a diode is called the 8 are materials that contain exactly four electrons in the outer orbit of their atom structure and are, therefore, neither good conductors nor good insulators. 9 is an example of a semiconductor. 11 The is in the center and the voltage applied to the is used to control current through a transistor. 14 The positive electrode of a diode is called the 17 When another material is added to a semiconductor material in very small amounts, it is called 19 material is silicon or germanium that is doped with an element such as phosphorus, arsenic, or antimony, each having five electrons in its outer orbit. 		
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