Electrical Fundamentals Chapter 39



ACROSS

- Because the number of negative-charged electrons is balanced with the same number of positive-charged protons, an atom has a
- 6 Voltage is also called

_____, because if there is voltage present in a conductor, there is a possibility for current flow.

8 _____ is also

known as voltage.

11 When pieces of two different metals joined together at both ends and one junction is heated, current passes through the metals. A _____ is used

to measure this very small current.

- 14 When an atom is not ballanced, it becomes a charged particle called an ____.
- 15 _____ are materials with fewer than four electrons in their atom's outer orbit.
- 17 _____ are materials with more than four electrons in their atom's outer orbit.
- 19 A ______ is a three-terminal variable resistor where a wiper contact provides a variable voltage output.
 20 A ______ is 6.28
- billion billion electrons. 21 ______ to the flow

of current through a conductor is measured in units called ohms.

DOWN

- 2 Amperes are measured by an _____.
- 3 Materials with exactly four electrons in their outer orbit are neither conductors nor insulators, but are called

4 ___

- is another way of indicating voltage.
- **5** A _____ is the electrical unit for power.
- 7 The outermost electron shell or ring, called the _____, is the most important part of

understanding electricity.

- 9 Tightly held electrons are called _____
- **10** Loosely held electrons are called _____
- 12 _____ is the movement of electrons from one atom to another.
- 13 A ______ is a twoterminal v ariable resistor unit in which all of the current flows through a mov able arm.
- 16 The _____ is the unit used throughout the world to measure current flow.
- **18** The _____ is the unit of measurement for electrical pressure.

