

CHAPTER 23**STUDY GUIDE****SERIES AND PARALLEL CIRCUITS****Vocabulary Review**

For each description on the left, write the letter of the matching item.

series circuit

1. a circuit in which there is only one current path

a. ammeter

fuse

2. a short piece of metal that melts if a current that is too large passes through it

b. circuit breaker

short circuit

3. the occurrence when a circuit forms that has a very low resistance

c. combination series-parallel circuit

parallel circuit

4. a circuit in which there are several different paths for a current

d. equivalent resistance

circuit breaker

5. an automatic switch that opens a circuit when the current reaches some set value, stopping electric charge flow

e. fuse

combination series-parallel circuit

6. a circuit that has some branches in parallel and some in series

f. ground-fault interrupter

equivalent resistance

7. the value of a single resistor that could replace all resistors in a circuit without changing the current

g. parallel circuit

ammeter

8. a device used to measure the current in part of a circuit

h. series circuit

voltmeter

9. a device used to measure the potential difference between two points

i. short circuit

ground-fault interrupter

10. a device that detects small differences in current caused by an extra current path and opens the circuit

j. voltage divider

voltage divider

11. a series circuit used to produce a voltage source from a higher-voltage battery

k. voltmeter

SECTION 1 Simple Circuits

In your textbook, read about currents in series circuits.

Circle the letter of the choice that best completes the statement or answers the question.

1. The current is _____ a series circuit.

- higher at the beginning of
- the same everywhere in
- lower at the beginning of
- variable in

Study Guide Series Parallel Circuits

Anthony J. Pansini

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