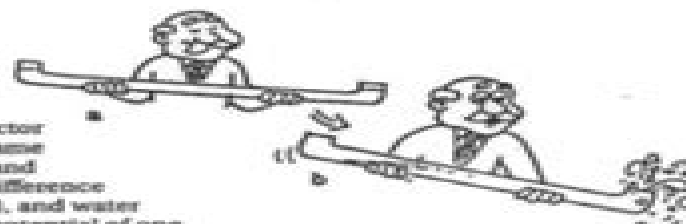


Concept-Development Practice Page

34-1

Electric Current

1. Water doesn't flow in the pipe when (a) both ends are at the same level. Another way of saying this is that water will not flow in the pipe when both ends have the same potential energy (PE). Similarly, charge will not flow in a conductor if both ends of the conductor are at the same electric potential. But tip the water pipe and increase the PE of one side so there is a difference in PE across the ends of the pipe, as in (b), and water will flow. Similarly, increase the electric potential of one end of an electric conductor so there is a potential difference across the ends, and charge will flow.



- a. The units of electric potential difference are
(volts) (amperes) (ohms) (watts)
- b. It is common to call electric potential difference
(voltage) (amperage) (wattage)
- c. The flow of electric charge is called electric
(voltage) (current) (power),
and is measured in
(volts) (amperes) (ohms) (watts)

A VOLT IS A UNIT OF Energy ^{Field}
AND AN AMPERE IS A UNIT OF Current

DOES VOLTAGE CAUSE CURRENT,
OR DOES CURRENT CAUSE VOLTAGE?
WHICH IS THE CAUSE AND WHICH
IS THE EFFECT?

2. Complete the statements:

- a. A current of 1 ampere is a flow of charge at the rate of 1 coulomb per second.
- b. When a charge of 15 C flows through any area in a circuit each second, the current is
15 A.
- c. One volt is the potential difference between two points if 1 joule of energy is needed to move
1 coulomb of charge between the two points.
- d. When a lamp is plugged into a 120-V socket, each coulomb of charge that flows in the circuit is raised to a potential energy of 120 joules.
- e. Which offers more resistance to water flow, a wide pipe or a narrow pipe? Narrow.
Similarly, which offers more resistance to the flow of charge, a thick wire or a thin wire?
Thin

Concept Development 34 Physics

Ying-Ying Zheng



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Conceptual Development of 20th Century Field Theories Tian Yu Cao, 2019-10-03 An overview of the conceptual and historical foundations of fundamental field theories including their underlying issues logic and dynamics Historical Abstracts ,1983 **The Compton Effect: Turning Point in Physics** Roger H. Stuewer, 1975 *Comprehensive Dissertation Index* ,1984 *Research and Technology Objectives and Plans Summary (RTOPS)* ,1984 *NASA Technical Memorandum* ,1984 **Current Research in Britain** ,1991 **Chekhoslovařskii Fizicheskii Zhurnal. Czechoslovak Journal of Physics** ,1986 The World as Imagination (series I) Edward Douglas Fawcett, 1916 The Elementary School Journal ,1924 **A Summary of Research in Science Education** ,1974 *AAAS Annual Meeting Program* American Association for the Advancement of Science. National Meeting, 1989 *The Elementary School Teacher* ,1904 *Energy Research Abstracts* ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes **Index to Tests Used in Educational Dissertations** Emily Fabiano, 1989 Indian Journal of Chemistry ,1995 **British Education Index** ,2001 American Men and Women of Science ,1986 **Journal for Research in Mathematics Education** ,1974 **Current Index to Journals in Education** ,1997-10

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
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