

Question: 9

- (a) Name and state the law which relates the potential difference and current in a conductor.
 (b) What is the necessary condition for a conductor to obey the law named above in part (a)?

Solution:

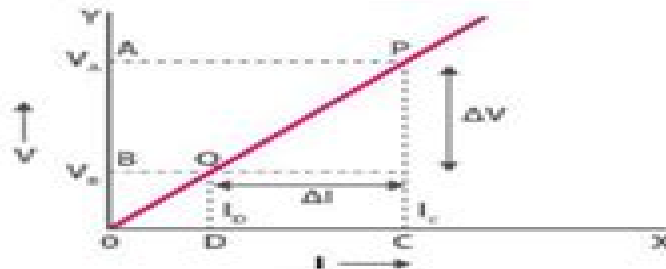
- (a) The law is known as Ohm's law. This law states that the current flowing through the conductor is directly proportional to the potential difference across its ends provided that the physical conditions and the temperature of the conductor remain constant.
 (b) The necessary condition for a conductor to obey Ohm's law is that the temperature should remain constant.

Question: 10

- (a) Draw a V-I graph for a conductor obeying Ohm's law.
 (b) What does the slope of V-I graph for a conductor represent?

Solution:

- (a) V-I graph for a conductor obeying Ohm's law is given below



- (b) Slope of V-I graph for a conductor represents resistance.

Chapter 8 Physics Answers

Kathy A. Zahler



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Chapter 8 Physics Answers Book Review: Unveiling the Power of Words

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web he concluded that at a constant pressure the volume of the gas would expand at a particular rate for each degree of temperature rise that being 1 267 per degree in 1874 victor regnault obtained better experimental results showing this number to be 1 273 and concluded that the pressure would approach zero at 1 273 degrees c

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web the volume of 1 00 mol 1 00 mol of any gas at stp standard temperature 273 15 k and pressure 1 atm is measured to be 22 414l 22 414 l we can substitute 101 325kpa 101 325 kpa for pressure 22 414 l 22 414 l for volume and 273 15 k 273 15 k for temperature into the ideal gas equation and solve for r r

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