

Algebra Principles and Formulas 2 (Speedy Study Guides)

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Guides

ALGEBRA PRINCIPLES & FORMULAS 2

Question: The electrical resistance of an RTD temperature sensor (R) is given by this equation as a function of its base resistance at a specified reference temperature (R_0), its coefficient of resistance (α), its temperature (T), and the reference temperature (T_0):

$$R = R_0(1 + \alpha(T - T_0))$$

Manipulate this equation to solve for each of the following variables:

$R_0 =$
 $\alpha =$
 $T =$
 $T_0 =$

Answer:

$$R_0 = \frac{R}{1 + \alpha(T - T_0)}$$

$$\alpha = \frac{\frac{R}{R_0} - 1}{T - T_0}$$

$$T = \frac{\frac{R}{R_0} - 1}{\alpha} + T_0$$

$$T_0 = T - \frac{\frac{R}{R_0} - 1}{\alpha}$$

Question: The velocity necessary for a satellite to maintain a circular orbit around Earth is given by this equation:

$$v_c = \sqrt{gR}$$

Where: v_c = satellite velocity (feet per second)
 g = acceleration of Earth gravity at sea level (32 feet per second squared)
 R = orbit altitude (feet)

Manipulate this equation to solve for g , and then to solve for R .

$g =$
 $R =$

Answer:

$$g = v_c^2 / R$$

$$R = v_c^2 / g$$

Question: This equation predicts the volumetric flow rate of liquid through a control valve (Q) given the flow coefficient for the valve (C_v), the upstream and downstream pressures (P_1 and P_2), and the specific gravity of the liquid (G_f):

$$Q = C_v \sqrt{\frac{P_1 - P_2}{G_f}}$$

Manipulate this equation to solve for each of the following variables:

Filesize: 8.05 MB



Reviews

This written publication is fantastic. This can be for anyone who stutte that there had not been a well worth reading through. I realized this pdf from my i and dad recommended this publication to discover.
 (Maye Schoen)

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