

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_{ref}):

$$R = R_0[1 + \alpha(T - T_{ref})]$$

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

$$R_0 =$$

$$\alpha =$$

$$T =$$

$$T_{ref} =$$

Answer:

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

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

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

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

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

$$v_s = \sqrt{g_e + h}$$

Where, v_s = Satellite velocity (feet per second)

g_e = Acceleration of Earth gravity at sea level (32 feet per second squared)

h = Orbit altitude, (feet)

Manipulate this equation to solve for g_e , and then to solve for h :

$$g_e =$$

Answer:

$$g_e = v_s^2 - h$$

$$h = v_s^2 - g_e$$

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:



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