

CH. 9 – PROBLEM SOLUTIONS

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9.1

(a)

(b)

(c)

$V_I > 0 \Rightarrow Q_O = \text{OFF} \Rightarrow V_O = 2.5\text{V}$
 $\Rightarrow R_2 = R_3$. Let $R_2 = R_3 = 12\text{k}\Omega$.
 $V_I < 0 \Rightarrow Q_O = \text{SAT} \Rightarrow V_O = -2\text{V}$.
 kcal: $\frac{5 - (-2.5)}{12} + \frac{0 - (-2.5)}{12} = \frac{-2.5 - (-5)}{R_1}$
 $\Rightarrow R_1 = 5.0\text{ k}\Omega$.

9.2

Since the voltage developed by the thermistor decreases with T , it must be applied to the inverting input. $R(100^\circ\text{C}) = 10\text{ k}\Omega \times \exp[4000(1/373.2 - 1/298.2)] = 6.75\text{ k}\Omega$. Make all bridge resistors nominally $6.75\text{ k}\Omega$. To allow exact calibration, let $R_4 = 1\text{ k}\Omega$ pot and $R_2 = R_3 = 6.75 - 0.5 = 6.25\text{ k}\Omega$. The closest 1% standard values are $R_1 = 6.81\text{ k}\Omega$ and $R_2 = R_3 = 6.19\text{ k}\Omega$. Moreover, let $R_5 = 3.3\text{ k}\Omega$. To calibrate, place the thermistor in boiling water and adjust R_4 until V_O bounces back and forth between 0 and V_{CC} .

Solutions Manual Operational Amplifiers

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