

CH. 9 – PROBLEM SOLUTIONS

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9.1

(a)

(b)

(c)

$V_I > 0 \Rightarrow Q_0 = \text{OFF} \Rightarrow V_O = 2.5\text{V}$
 $\Rightarrow R_2 = R_3$. Let $R_2 = R_3 = 12\text{k}\Omega$.
 $V_I < 0 \Rightarrow Q_0 = \text{SAT} \Rightarrow V_O = -2\text{V}$.
 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

Nassir H. Sabah



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Electronic Devices and Circuit Fundamentals, Solution Manual Dale R Patrick, Stephen W. Fardo, Ray E. Richardson, Vigyan (Vigs) Chandra, 2023-05-26 Devices and Circuit Fundamentals is Chapter Outline Learning Objectives Key Terms Figure List Chapter Summary Formulas Answers to Examples Self Exams Glossary of Terms defined *Operational Amplifiers and Linear Integrated Circuits (instructor's Solutions Manual with Transparency Masters* Robert F. Coughlin, Frederick F. Driscoll, 1991 *Solutions Manual to Accompany Introduction to Operational Amplifier Theory and Applications* John V. Wait, Lawrence P. Huelsman, Granino Arthur Korn, 1992

Nonlinear Dynamics and Chaos with Student Solutions Manual Steven H. Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

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Cost of producing U O ?from ammonium bicarbonate in situ leach solution by the multiple-compartment ion-exchange system Masami Hayashi, 1979

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International Journal of Electrical Engineering Education, 1989

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Data-Centric Business and Applications Andriy Semenov,Iryna Yepifanova,Jana Kajanová,2025-02-27 The combination of the latest developments in economic theory with contemporary information technologies may be considered as a powerful instrument for the processing of commercial data This book employs the Ukrainian economy as a case study to examine the multifaceted aspects of financial and investment processes as well as the utilization of information technology mechanisms in company and industrial management The range of industrial sectors that have been investigated facilitates application of effective business analysis in enterprises Furthermore the book provides detailed insights into transdisciplinary ideas practices and examples that may be beneficial when examining evolutionary developments in this area Additionally this book presents analytical techniques for decision making in business finance and innovation management

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