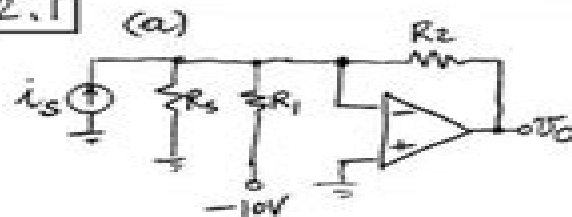


## CH. 2 – PROBLEM SOLUTIONS

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2.1



$$R_2 = \frac{\Delta v_o}{\Delta i_s} = \frac{5 - (-5)}{(1-0)\text{mA}} = 10\text{ k}\Omega.$$

$$i_s = 0 \Rightarrow v_o = +5\text{V} = -\frac{R_2}{R_1}(-10) \\ \Rightarrow R_1 = 2R_2 = 20\text{ k}\Omega.$$

$$(b) \beta = \frac{R_s/R_1}{R_s/R_1 + R_2} \cdot R_s = \infty \Rightarrow \beta = \frac{20}{20+10} = \frac{2}{3}, T = A\beta = \frac{2}{3}A.$$

$$0.01\% \text{ max deviation} \Rightarrow \frac{1}{T} \leq \frac{0.01}{100} \Rightarrow T > 10^4 \Rightarrow \frac{2}{3}A > 10^4 \Rightarrow A > 15,000\text{ V/V}.$$

$$(c) 0.025\% \text{ max deviation with } A = 15,000\text{ V/V and } R_s \text{ in place} \\ \Rightarrow \frac{1}{15,000\beta} \leq \frac{0.025}{100} \Rightarrow \beta \geq \frac{1}{3.75} \Rightarrow \frac{1}{1 + R_2/R_s + R_2/R_1} \geq \frac{1}{3.75} \Rightarrow \\ \frac{1}{1 + 10/R_s + 0.5} \geq \frac{1}{3.75} \Rightarrow \frac{10}{R_s} < 2.25 \Rightarrow R_s \geq 4.444\text{ k}\Omega.$$

# Solution Manual For Design With Operational Amplifiers

**Yijin Wang**



## **Solution Manual For Design With Operational Amplifiers:**

*Solution Manual Operational Amplifier Circuits* David E. Johnson,V. Jayakumar,1982      **Numerical and Evolutionary Optimization - NEO 2017** Leonardo Trujillo,Oliver Schütze,Yazmin Maldonado,Paul Valle,2018-07-12 This book features 15 chapters based on the Numerical and Evolutionary Optimization NEO 2017 workshop held from September 27 to 29 in the city of Tijuana Mexico The event gathered researchers from two complimentary fields to discuss the theory development and application of state of the art techniques to address search and optimization problems The lively event included 7 invited talks and 64 regular talks covering a wide range of topics from evolutionary computer vision and machine learning with evolutionary computation to set oriented numeric and steepest descent techniques Including research submitted by the NEO community the book provides informative and stimulating material for future research in the field      **Photodiode Amplifiers: OP AMP Solutions** Jerald G. Graeme,1996 Light photons impinging upon a semiconductor material in the vicinity of a P N junction release conduction carriers to produce current flow through the photodiode effect Photodiode amplifiers convert this current to a voltage in a relationship that remains linear as long as the amplifier eliminates signal voltage swing from the photodiode For this purpose the simple current to voltage converter or transimpedance amplifier presents a virtual ground to the diode However when connected to a photodiode this simple op amp circuit displays surprising multidimensional constraints that defy conventional op amp intuition      *Scientific and Technical Books and Serials in Print* ,1989      Basic Engineering Circuit Analysis J. David Irwin,R. Mark Nelms,2020-08-18 Basic Engineering Circuit Analysis has long been regarded as the most dependable textbook for computer and electrical engineering majors In this new edition Irwin and Nelms continue to develop the most complete set of pedagogical tools available and provide the highest level of support for students entering into this complex subject Irwin and Nelms trademark student centered learning design focuses on helping students complete the connection between theory and practice Key concepts are explained clearly and illustrated by detailed worked examples These are then followed by Learning Assessments which allow students to work similar problems and check their results against the answers provided      CMOS Behzad Razavi,2005 CMOS MOS      *Subject Guide to Books in Print* ,1993      **Electronic Circuit Analysis and Design** Donald A. Neamen,2001 This junior level electronics text provides a foundation for analyzing and designing analog and digital electronic circuits Computer analysis and design are recognized as significant factors in electronics throughout the book The use of computer tools is presented carefully alongside the important hand analysis and calculations The author Don Neamen has many years experience as an engineering educator and an engineer His experience shines through each chapter of the book rich with realistic examples and practical rules of thumb The book is divided into three parts Part 1 covers semiconductor devices and basic circuit applications Part 2 covers more advanced topics in analog electronics and Part 3 considers digital electronic circuits      *Computer-Aided Design of Analog Integrated Circuits and Systems* Rob A.

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