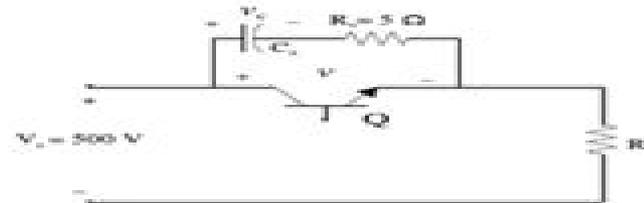


## EENG441 SOLVED PROBLEMS

**P1-)** The transistor Q in the chopper shown below has a maximum  $(dv/dt)$  rating of  $50 \text{ V}/\mu\text{s}$ . It is used to supply a resistive load of  $R_L = 100 \ \Omega$ . Find the snubber capacitance  $C_s$  required to protect the transistor for  $dv/dt$ , when it is turned off. Assume that the transistor is turned off at  $t=0$ , and  $v_c(0)=0$ .



### Solution:

The solution for the capacitor voltage after Q is turned off:

$$v_c(t) = V_s(1 - e^{-t/\tau}) \quad \tau = (R_s + R_L)C_s$$

$$i = C_s \frac{dv_c}{dt} = \frac{V_s}{R_s + R_L} e^{-t/\tau} \quad \Rightarrow \quad v(t) = V_s - R_L i = V_s \left[ 1 - \frac{R_L}{R_s + R_L} e^{-t/\tau} \right]$$

$$\begin{aligned} \frac{dv}{dt} &= V_s \frac{R_L}{C_s (R_s + R_L)^2} e^{-t/\tau} \quad \Rightarrow \quad \left( \frac{dv}{dt} \right)_{\max} = V_s \frac{R_L}{C_s (R_s + R_L)^2} = \frac{9.8765}{C_s} = 50 \text{ V}/\mu\text{s} = 50 \times 10^6 \text{ V/s} \\ \Rightarrow \quad C_s &= 0.1975 \ \mu\text{F} \end{aligned}$$

Alternatively, the voltage across Q can be solved directly from the eqn.  $x(t) = x(\infty) + [x(0) - x(\infty)]e^{-t/\tau}$

$$v(\infty) = v_c(\infty) = V_s \quad v(0^+) = R_L i(0^+) = R_L \frac{V_s}{R_s + R_L} \quad \tau = (R_s + R_L)C_s$$

$$\Rightarrow v(t) = V_s + \left[ V_s \frac{R_L}{R_s + R_L} - V_s \right] e^{-t/\tau} = V_s \left[ 1 - \frac{R_L}{R_s + R_L} e^{-t/\tau} \right]$$


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# Electronics Solved Problems

**Kendall L. Su**



## **Electronics Solved Problems:**

*The Electronics Problem Solver* Max Fogiel, Research and Education Association, 1988 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of electronics currently available with hundreds of electronics problems that cover everything from circuits and transistors to amplifiers and generators Each problem is clearly solved with step by step detailed solutions

2000 Solved Problems in Electronics Cathey, 1990

**2000 Solved Problems in Digital Electronics** S. P. Bali, 2005

**Basic Electronics** S. Y. Kulkani, B. Somanathan Nair, K. Shree Krishna Kumar, 2011-03 The present book is meant for the first year engineering curricula of various universities in India It describes the basic theories of Semiconductor Diodes and Application Bipolar Junction Transistors Biasing Methods Other Devices Amplifiers and Oscillators

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TABLE OF CONTENTS Introduction Chapter 1 Fundamental Semiconductor Devices Properties of Semiconductors The p n Junction Junction Diode Characteristics Bipolar Transistor Theory Bipolar Transistor Characteristics Field Effect Transistors Chapter 2 Analog Diode Circuits Clippers and Clampers Rectifiers and Filters Synthesis of Volt Ampere Transfer Functions Zener Diode Voltage Regulators Miscellaneous Diode Circuits Chapter 3 Basic

Transistor Circuits Inverter Common Emitter Amplifier Emitter Follower Common Base Amplifier Bias Stability and Compensation Miscellaneous BJT Circuits Common Source JFET Amplifier Common Drain JFET Amplifier MOSFET Amplifiers Chapter 4 Small Signal Analysis Amplifier Concepts and Hybrid Parameters Common Emitter Amplifier Emitter Follower Common Base Amplifier Common Source JFET Amplifier Common Drain JFET Amplifier Common Gate JFET Amplifier MOSFET Circuit Analysis Noise Chapter 5 Multiple Transistor Circuits Cascading of Stages Darlington Configuration Difference Amplifier Direct Coupled Amplifiers Other Configurations Chapter 6 Power Amplifiers Class A Class B Push Pull Class AB Push Pull Complementary Symmetry Push Pull Chapter 7 Feedback Circuits Feedback Concepts Gain and Impedance of Feedback Amplifiers Feedback Analysis and Design Stability of Feedback Circuits Regulated Power Supplies Chapter 8 Frequency Response of Amplifiers Low Frequency Response of BJT Amplifiers Low Frequency Response of FET Amplifiers High Frequency Behavior of CE Amplifiers High Frequency Behavior of CC and CB Amplifiers High Frequency Behavior of FET Amplifiers Multistage Amplifiers At High Frequencies The Gain Bandwidth Product Frequency Response of Miscellaneous Circuits Transistor Switch Chapter 9 Tuned Amplifiers and Oscillators Single Tuned Amplifiers Double Tuned Amplifiers Synchronously Tuned Amplifiers Stagger Tuned Amplifiers Other Tuned Amplifiers Phase Shift Oscillators Colpitts Oscillators Hartley Oscillators Other Oscillators Chapter 10 Operational Amplifiers Basic Op Amp Characteristics Frequency Response of Op Amps Stability and Compensation Integrators and Differentiators Mathematical Applications of Op Amps Active Filters The Comparator Miscellaneous Op Amp Applications Chapter 11 Timing Circuits Waveform Generators Free Running Multivibrators Monostable Multivibrators Schmitt Trigger Sweep Circuits Miscellaneous Circuits Chapter 12 Other Electronic Devices and Circuits Tubes SCR and TRIAC Circuits Unijunction Transistors Tunnel Diodes Four Layer Diodes Light Controlled Devices Miscellaneous Circuits D A and A D Converters Chapter 13 Fundamental Digital Circuits Diode Logic DL Gates Resistor Transistor Logic RTL Gates Diode Transistor Logic DTL Gates Transistor Transistor Logic TTL Gates Emitter Coupled Logic ECL Gates MOSFET Logic Gates Chapter 14 Combinational Digital Circuits Boolean Algebra Logic Analysis Logic Synthesis Encoders Multiplexers and ROM s Chapter 15 Sequential Digital Circuits Flip Flops Synthesis of Sequential Circuits Analysis of Sequential Circuits Counters Shift Registers Appendix Index WHAT THIS BOOK IS FOR

Students have generally found electronics a difficult subject to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electronics continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems Various interpretations of electronics terms also contribute to the difficulties of mastering the subject In a study of electronics REA found the following basic reasons underlying the inherent difficulties of electronics No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods To

prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others These explanations are often written in an abstract manner that causes confusion as to the principle s use and application Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied The numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises Accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles The explanations do not provide sufficient basis to solve pro

Solved Problems in Industrial Electronics Noel Malcolm Morris,1972-01-01 **A Collection of Solved Problems in Circuits, Electronics and Signal Electronics** Kendall L. Su,1981-03-01 **Electric Circuit Problems with Solutions** F. A. Benson,2012-12-06 Electrical engineering and electronic engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential The author is very much in favour of tutorials and the solving of problems as a method of education Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post intermediate years of Uni versity engineering courses The purpose of this book is to present these problems a total of 365 together with many solutions some problems with answers given at the end of each Chapter are left as student exercises in the hope that they will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author s previous work *Electrical Engineering Problems with Solutions* which was published in 1954 *A Collection of Solved Problems in Circuits, Electronics, and Signal Analysis* Kendall Ling-chiao Su,1981 **200 Solved Problems in Electronics** Jimmie J. Cathey,1990 Solving Problems in Electrical Power and Power Electronics H. F. G. Gwyther,1988 *3,000 Solved Problems in Electrical Circuits* Syed A. Nasar,1988-01-22 Master electric circuit problems the time saving Schaum s way This thorough study tool is packed with 3 000 all inclusive problems showing the way to solve the problems faced on these difficult tests *Digital Electronics MCQ (Multiple Choice Questions)* Arshad Iqbal, *The Digital Electronics Multiple Choice Questions MCQ Quiz with Answers PDF* *Digital Electronics MCQ PDF Download Quiz Questions Chapter 1 25 Practice Tests with Answer Key* *Electronics Questions Bank MCQs* Notes includes revision guide for problem solving with hundreds of

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## **Table of Contents Electronics Solved Problems**

1. Understanding the eBook Electronics Solved Problems
  - The Rise of Digital Reading Electronics Solved Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Electronics Solved Problems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electronics Solved Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electronics Solved Problems
  - Personalized Recommendations
  - Electronics Solved Problems User Reviews and Ratings
  - Electronics Solved Problems and Bestseller Lists
5. Accessing Electronics Solved Problems Free and Paid eBooks
  - Electronics Solved Problems Public Domain eBooks
  - Electronics Solved Problems eBook Subscription Services
  - Electronics Solved Problems Budget-Friendly Options

6. Navigating Electronics Solved Problems eBook Formats
  - ePub, PDF, MOBI, and More
  - Electronics Solved Problems Compatibility with Devices
  - Electronics Solved Problems Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electronics Solved Problems
  - Highlighting and Note-Taking Electronics Solved Problems
  - Interactive Elements Electronics Solved Problems
8. Staying Engaged with Electronics Solved Problems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electronics Solved Problems
9. Balancing eBooks and Physical Books Electronics Solved Problems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electronics Solved Problems
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electronics Solved Problems
  - Setting Reading Goals Electronics Solved Problems
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electronics Solved Problems
  - Fact-Checking eBook Content of Electronics Solved Problems
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

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