

**CHAPTER 10**

**P.P.10.1**       $10 \sin(2t) \longrightarrow 10 \angle 0^\circ, \quad \omega = 2$   
 $2 \text{ H} \longrightarrow j\omega L = j4$   
 $0.2 \text{ F} \longrightarrow \frac{1}{j\omega C} = -j2.5$

Hence, the circuit in the frequency domain is as shown below.



At node 1,  $10 = \frac{V_1}{2} + \frac{V_1 - V_2}{-j2.5}$   
 $100 = (5 + j4)V_1 - j4V_2$  (1)

At node 2,  $\frac{V_2}{j4} = \frac{V_1 - V_2}{-j2.5} + \frac{3V_x - V_2}{4}$  where  $V_x = V_1$   
 $-j2.5V_2 = j4(V_1 - V_2) + 2.5(3V_1 - V_2)$   
 $0 = -(7.5 + j4)V_1 + (2.5 + j1.5)V_2$  (2)

Put (1) and (2) in matrix form.

$$\begin{bmatrix} 5 + j4 & -j4 \\ -(7.5 + j4) & 2.5 + j1.5 \end{bmatrix} \begin{bmatrix} V_1 \\ V_2 \end{bmatrix} = \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

where  $\Delta = (5 + j4)(2.5 + j1.5) - (-j4)(-(7.5 + j4)) = 22.5 - j12.5 = 25.74 \angle -29.05^\circ$

$$\begin{bmatrix} V_1 \\ V_2 \end{bmatrix} = \frac{\begin{bmatrix} 2.5 + j1.5 & j4 \\ 7.5 + j4 & 5 + j4 \end{bmatrix}}{22.5 - j12.5} \begin{bmatrix} 100 \\ 0 \end{bmatrix}$$

$$V_1 = \frac{2.5 + j1.5}{22.5 - j12.5} (100) = \frac{2.915 \angle 30.96^\circ}{25.74 \angle -29.05^\circ} (100) = 11.32 \angle 60.01^\circ$$

$$V_2 = \frac{7.5 + j4}{22.5 - j12.5} (100) = \frac{8.5 \angle 28.07^\circ}{25.74 \angle -29.05^\circ} (100) = 33.02 \angle 57.12^\circ$$



# Electrical Circuit Analysis Problems

**Mehdi Rahmani-Andebili**



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**Electric Circuit Analysis, 3e Student Problem Set and Solutions** David E. Johnson, 1996-01-15 Comprehensive practice and explanations of electrical circuits Electrical Circuit Analysis Third Edition Student Problem Set and Solutions provides physics and engineering students with supplementary practice problems for understanding circuits Concise explanations clarify difficult concepts and applications while extensive examples and problems allow students to strengthen their understanding by applying their knowledge and critical thought Covering a broad swath of circuit problems this book includes analysis of first and second order circuits AC steady state power sinusoidal sources mutual inductance frequency response and much more

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**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

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**Understanding Circuits** Khalid Sayood, 2022-06-01 This book lecture is intended for a college freshman level class in problem solving where the particular problems deal with electrical and electronic circuits It can also be used in a junior senior level class in high school to teach circuit analysis The basic problem solving paradigm used in this book is that of resolution of a problem into its component parts The reader learns how to take circuits of varying levels of complexity using this paradigm The problem solving exercises also familiarize the reader with a number of different circuit components including resistors capacitors diodes transistors and operational amplifiers and their use in practical circuits The reader should come away with both an understanding of how to approach complex problems and a feel for electrical and electronic circuits

**DC Electrical Circuits Analysis** Mehdi Rahmani-Andebili, 2025-10-13 This new and expanded edition is designed for students taking DC electrical circuit analysis courses It includes a range of problems and detailed solutions to enhance understanding of the subject The textbook features partially and fully solved exercises and hints for the necessary formulas and answers This structure allows students to study the topic while walking through problem solving methods and solutions Topics covered include basic concepts and laws of electrical circuits analysis methods of electrical circuits analysis theorems of electrical circuits analysis capacitors inductors and circuit analysis under steady state conditions analysis of first order circuits and analysis of second order circuits With its thorough solutions diverse problem solving approaches and clear explanations this hands on guide aims to improve students problem solving skills and foster a strong understanding of electric circuit analysis Additionally it serves as a valuable resource for instructors in developing questions tests and quizzes

**Electrical Circuits. Nodal and Mesh Analysis** Bachiller Soler, A, Cano Gonzalez, R, González Cagigal, M, 2021-11-22 This book is focused on the systematic analysis of electric circuits using nodal and mesh equations In the first chapter a brief study is presented on the number of equations and unknowns generally involved in the resolution of an electric circuit The second chapter describes the method based on node voltage equations while the third chapter is focused on the mesh current equations Each chapter includes a section with the theoretical concepts required to successfully approach all the proposed problems which are solved in detail This work supposes an important pedagogical effort including more than 150 illustrations which facilitate the overall understanding and make the reading more entertaining

**Electric Circuit Analysis** S. N. Sivanandam, 2009-11-01

This book *Electric Circuit Analysis* attempts to provide an exhaustive treatment of the basic foundations and principles of circuit analysis which should become an integral part of a student's knowledge in his pursuit of the study of further topics in electrical engineering. The topics covered can be handled quite comfortably in two academic semesters. Numerous solved problems are provided to illustrate the concepts. In addition, a large number of exercise problems have been included at the end of each chapter. This revised edition covers some additional topics separately in an appendix. Further, some revisions and corrections have been incorporated in the text as per the suggestions given by teachers and students of electrical engineering. The book draws upon three decades of teaching experience of the author in this subject. Students are advised to work out the problems and enhance their learning and knowledge of the subject. The book includes objective type questions to help students prepare for competitive examinations.

**Problems & Solutions in Electric Circuit Analysis** S. N. Sivanandam, Ph.D., S. N. Deepa, 2007. *Problems And Solutions In Electric Circuit Analysis* provides an extensive approach to problem solving in the basic principles of circuit analysis. It is a knowledge based book that will help the reader to pursue further study in this discipline. The solutions to the problems are well balanced for polytechnic colleges, engineering colleges and university level studies. There are seventeen chapters in the book. The topics included can be covered in two academic semesters. The main objective of the book is to enable the students to clearly understand the method of solving electric circuit problems.

**3,000 Solved Problems in Electrical Circuits** Syed A. Nasar, 1988-01-22. *Schaum's powerful problem solver* gives you 3 000 problems in electric circuits fully solved step by step. The originator of the solved problem guide and students favorite with over 30 million study guides sold, *Schaum's* offers a diagram packed timesaver to help you master every type of problem you'll face on tests. Problems cover every area of electric circuits from basic units to complex multi phase circuits, two port networks and the use of Laplace transforms. Go directly to the answers and diagrams you need with our detailed cross referenced index. Compatible with any classroom text, *Schaum's 3000 Solved Problems in Electric Circuits* is so complete it's the perfect tool for graduate or professional exam prep.

**Advanced Electrical Circuits Analysis** Mehdi Rahmani-Andebili, 2025-11-27. This study guide is designed for both groups of instructors and students enrolled in advanced electrical circuit analysis courses. The textbook includes problems with detailed solutions to help students understand the subjects in depth. It features partially solved exercises that encourage practice while guiding students through the problem solving process and providing hints for the required formulas. Additionally, it offers exercises with final answers to motivate students to practice independently while also aiding instructors in creating tests or quizzes. The material covered in the book includes the state equations of electrical circuits, circuit analysis in Laplace domain, network function and its applications and theorems in Laplace domain, zero and nonzero natural frequencies of a circuit, zeros and poles of network function of a circuit and damping status of an electrical circuit, linear time invariant LTI networks and applications of Tellegen's Theorem for LTI networks, impedance, admittance, hybrid and transmission matrices of a two port network and series, parallel and cascade

connections of two port networks      Introduction to Electrical Circuit Analysis Ozgur Ergul, 2017-05-03 A concise and original presentation of the fundamentals for new to the subject electrical engineers This book has been written for students on electrical engineering courses who don't necessarily possess prior knowledge of electrical circuits Based on the author's own teaching experience it covers the analysis of simple electrical circuits consisting of a few essential components using fundamental and well known methods and techniques Although the above content has been included in other circuit analysis books this one aims at teaching young engineers not only from electrical and electronics engineering but also from other areas such as mechanical engineering aerospace engineering mining engineering and chemical engineering with unique pedagogical features such as a puzzle like approach and negative case examples such as the unique When Things Go Wrong section at the end of each chapter Believing that the traditional texts in this area can be overwhelming for beginners the author approaches his subject by providing numerous examples for the student to solve and practice before learning more complicated components and circuits These exercises and problems will provide instructors with in class activities and tutorials thus establishing this book as the perfect complement to the more traditional texts All examples and problems contain detailed analysis of various circuits and are solved using a recipe approach providing a code that motivates students to decode and apply to real life engineering scenarios Covers the basic topics of resistors voltage and current sources capacitors and inductors Ohm's and Kirchhoff's Laws nodal and mesh analysis black box approach and Thevenin Norton equivalent circuits for both DC and AC cases in transient and steady states Aims to stimulate interest and discussion in the basics before moving on to more modern circuits with higher level components Includes more than 130 solved examples and 120 detailed exercises with supplementary solutions Accompanying website to provide supplementary materials [www.wiley.com/go/ergul4412](http://www.wiley.com/go/ergul4412)

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## **Table of Contents Electrical Circuit Analysis Problems**

1. Understanding the eBook Electrical Circuit Analysis Problems
  - The Rise of Digital Reading Electrical Circuit Analysis Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Circuit Analysis 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 Electrical Circuit Analysis Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Circuit Analysis Problems
  - Personalized Recommendations
  - Electrical Circuit Analysis Problems User Reviews and Ratings
  - Electrical Circuit Analysis Problems and Bestseller Lists
5. Accessing Electrical Circuit Analysis Problems Free and Paid eBooks
  - Electrical Circuit Analysis Problems Public Domain eBooks
  - Electrical Circuit Analysis Problems eBook Subscription Services
  - Electrical Circuit Analysis Problems Budget-Friendly Options
6. Navigating Electrical Circuit Analysis Problems eBook Formats

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

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