

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

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

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

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



Circuit Analysis Problems And Solutions

Steven G. Conahan



Circuit Analysis Problems And Solutions:

DC Electrical Circuit Analysis Mehdi Rahmani-Andebili, 2020-10-09 This study guide is designed for students taking courses in electrical circuit analysis The book includes examples questions and exercises that will help electrical engineering students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic understanding of the topics covered in electric circuit analysis courses

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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 **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

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connections of two port networks **Electric Circuit Problems with Solutions** Benson,1973-01-01 *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 **Basic Engineering Circuit Analysis** J. David Irwin,R. Mark Nelms,2005 Irwin's *Basic Engineering Circuit Analysis* has built a solid reputation for its highly accessible presentation clear explanations and extensive array of helpful learning aids Now in a new Eighth Edition this highly accessible book has been fine tuned and revised making it more effective and even easier to use It covers such topics as resistive circuits nodal and loop analysis techniques capacitance and inductance AC steady state analysis polyphase circuits the Laplace transform two port networks and much more For over twenty years Irwin has provided readers with a straightforward examination of the basics of circuit analysis including Using real world examples to demonstrate the usefulness of the material Integrating MATLAB throughout the book and includes special icons to identify sections where CAD tools are used and discussed Offering expanded and redesigned Problem Solving Strategies sections to improve clarity A new chapter on Op Amps that gives readers a deeper explanation of theory A revised pedagogical structure to enhance learning **Electric Circuits and Networks** K. S. Suresh Kumar,K. S.. Suresh Kumar,2008-08-05 *Electric Circuits and Networks* is designed to serve as a textbook for a two semester undergraduate course on basic electric circuits and networks The book builds on the subject from its basic principles Spread over seventeen chapters the book can be taught with varying degree of emphasis on its six subsections based on the course requirement Written in a student friendly manner its narrative style places adequate stress on the principles that govern the behaviour of electric circuits and networks *Power System Analysis* Mehdi Rahmani-Andebili,2024-11-04 *Power System Analysis Comprehensive Lessons* is designed for upper level undergraduate and graduate students taking electric power system analysis courses The classroom tested textbook covers the fundamental concepts in power system analysis per unit system single phase and three phase transformers synchronous generators transmission line parameters transmission line models and performance bus admittance and impedance matrices and power flow analysis It provides comprehensive lessons with examples that offer detailed solutions to help students learn theoretical numerical and real world problems Additionally partially solved exercises encourage students to solve problems

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