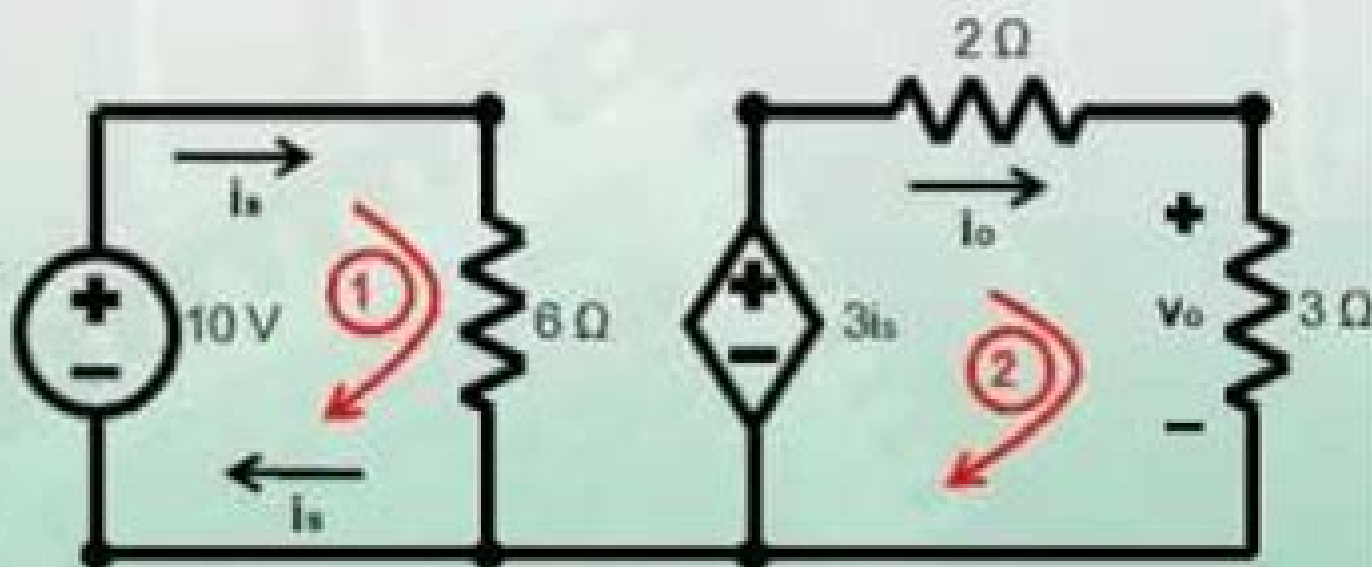


1.6 Circuits Containing A Dependent Source

Example 4:

- (a) Use Kirchhoff's laws and Ohm's law to find v_o .
- (b) Show that total power developed = total power dissipated.



Solution :

- (a) From loop 1: $-10 + 6i_s = 0 \rightarrow i_s = 1.67 \text{ A}$

$$\text{From loop 2: } -3i_s + 2i_o + 3i_o = 0 \rightarrow i_o = 1 \text{ A} \quad , \quad v_o = 3i_o = 3 \text{ V}$$

- (b) Power dissipated in the 6Ω resistor = $i_s^2 \times 6 = 16.67 \text{ W}$

$$\text{Power dissipated in the } 2 \Omega \text{ resistor} = i_o^2 \times 2 = 2 \text{ W}$$

$$\text{Power dissipated in the } 3 \Omega \text{ resistor} = i_o^2 \times 3 = 3 \text{ W}$$

$$\text{Power of the independent voltage source} = -10i_s = -16.67 \text{ W} < 0 \rightarrow \text{developed}$$

$$\text{Power of the dependent voltage source} = -3i_s \times i_o = -5 \text{ W} < 0 \rightarrow \text{developed}$$

Electrical Engineering Circuits

**David E. Johnson, Johnny R.
Johnson, John L. Hilburn, Peter D. Scott**

Electrical Engineering Circuits:

Circuits, Devices and Systems Ralph J. Smith, Richard C. Dorf, 1992-04-16 This book is also available through the Introductory Engineering Custom Publishing System If you are interested in creating a course pack that includes chapters from this book you can get further information by calling 212 850 6272 or sending email inquiries to engineerjwiley.com The authors offer a set of objectives at the beginning of each chapter plus a clear concise description of abstract concepts Focusing on preparing students to solve practical problems it includes numerous colorful illustrative examples Along with updated material on MOSFETS the CRO for use in lab work a thorough treatment of digital electronics and rapidly developing areas of electronics it contains an expansive glossary of new terms and ideas **Circuits, Devices, and Systems** Ralph Judson Smith, 1984 This book is also available through the Introductory Engineering Custom Publishing System If you are interested in creating a course pack that includes chapters from this book you can get further information by calling 212 850 6272 or sending email inquiries to engineerjwiley.com The authors offer a set of objectives at the beginning of each chapter plus a clear concise description of abstract concepts Focusing on preparing students to solve practical problems it includes numerous colorful illustrative examples Along with updated material on MOSFETS the CRO for use in lab work a thorough treatment of digital electronics and rapidly developing areas of electronics it contains an expansive glossary of new terms and ideas Electrical Engineering Circuits Hugh Hildreth Skilling, 1957 **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

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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 University 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

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Engineering Circuit Analysis William Hart Hayt, Jack Ellsworth Kemmerly, 1986

Electric Circuit Theory R. Yorke, 2013-10-22 Electric Circuit Theory provides a concise coverage of the framework of electrical engineering Comprised of six chapters this book emphasizes the physical process of electrical engineering rather than abstract mathematics Chapter 1 deals with circuit parameters while Chapter 2 covers the natural and forced response of simple circuit Chapter 3 talks about the sinusoidal steady state and Chapter 4 discusses the circuit analysis The fifth chapter tackles frequency response of networks and the last chapter covers polyphase systems This book will be of great help to electrical electronics and control engineering students or any other individuals who require a substantial understanding of the physical aspects of electrical engineering

Basic Electrical Engineering Arthur Eugene Fitzgerald, David E. Higginbotham, Arvin Grabel, 1981

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

The Electrical Engineering Handbook Wai Kai Chen, 2004-11-16 The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer's first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer's Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science 77 chapters encompass the entire field of electrical engineering THOUSANDS of valuable figures tables formulas and definitions Extensive bibliographic references

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Table of Contents Electrical Engineering Circuits

1. Understanding the eBook Electrical Engineering Circuits
 - The Rise of Digital Reading Electrical Engineering Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Engineering Circuits
 - 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 Engineering Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Engineering Circuits
 - Personalized Recommendations
 - Electrical Engineering Circuits User Reviews and Ratings
 - Electrical Engineering Circuits and Bestseller Lists
5. Accessing Electrical Engineering Circuits Free and Paid eBooks
 - Electrical Engineering Circuits Public Domain eBooks
 - Electrical Engineering Circuits eBook Subscription Services
 - Electrical Engineering Circuits Budget-Friendly Options
6. Navigating Electrical Engineering Circuits eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrical Engineering Circuits Compatibility with Devices
 - Electrical Engineering Circuits Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrical Engineering Circuits
 - Highlighting and Note-Taking Electrical Engineering Circuits
 - Interactive Elements Electrical Engineering Circuits
8. Staying Engaged with Electrical Engineering Circuits

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrical Engineering Circuits
9. Balancing eBooks and Physical Books Electrical Engineering Circuits
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrical Engineering Circuits
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Electrical Engineering Circuits
- Setting Reading Goals Electrical Engineering Circuits
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrical Engineering Circuits
- Fact-Checking eBook Content of Electrical Engineering Circuits
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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