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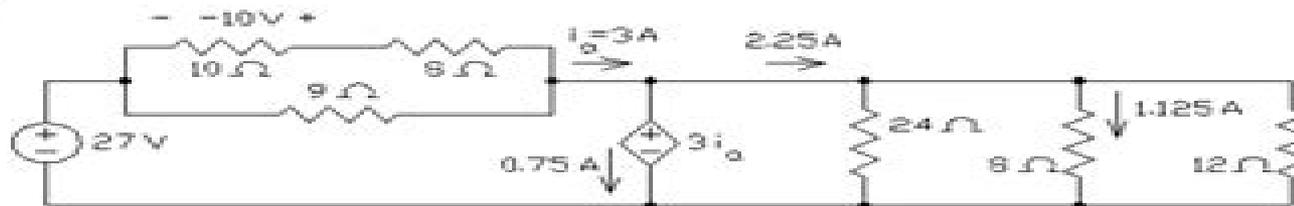
(a) 
$$\frac{1}{R_2} = \frac{1}{24} + \frac{1}{12} + \frac{1}{8} \Rightarrow R_2 = 4\Omega \quad \text{and} \quad R_1 = \frac{(10+8) \cdot 9}{(10+8)+9} = 6\Omega$$

(b)



First, apply KVL to the left mesh to get  $-27 + 6i_o + 3i_o = 0 \Rightarrow i_o = 3\text{ A}$ . Next, apply KVL to the right mesh to get  $4i_o - 3i_o = 0 \Rightarrow i_o = 2.25\text{ A}$ .

(c)



$$i_o = \frac{\frac{1}{8}}{\frac{1}{24} + \frac{1}{8} + \frac{1}{12}} 2.25 = 1.125\text{ A} \quad \text{and} \quad v_o = -(10) \left[ \frac{9}{(10+8)+9} 3 \right] = -10\text{ V}$$

# Introduction To Electric Circuits Solution Manual

**David E. Johnson**



## **Introduction To Electric Circuits Solution Manual:**

Introduction to Electric Circuits Richard C. Dorf, James A. Svoboda, 2010-01-07 The central theme of Introduction to Electric Circuits is the concept that electric circuits are a part of the basic fabric of modern technology Given this theme this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic communication computer and control systems as well as consumer products This book is designed for a one to three term course in electric circuits or linear circuit analysis and is structured for maximum flexibility

### **Solutions Manual to Accompany Introduction to Electric Circuits, (on Web Site**

**WWW.wiley.com/college/dorf**) Richard C. Dorf, 2000-10-01 *Solutions Manual for Introduction to Electrical Circuits Analysis* Robert C. Carter, 1969 **Introduction to Electronic Circuits** Herbert W. Jackson, 1986 An Introduction to

Linear Electric Circuits and Electronics Kelley, 1989-04-13 *Electric Circuits* James William Nilsson, Susan A. Riedel, 2008

Designed for use in a one or two semester Introductory Circuit Analysis or Circuit Theory Courses taught in Electrical or Computer Engineering Departments The most widely used introductory circuits textbook Emphasis is on student and instructor assessment and the teaching philosophies remain To build an understanding of concepts and ideas explicitly in terms of previous learning To emphasize the relationship between conceptual understanding and problem solving approaches To provide students with a strong foundation of engineering practices

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E. Johnson, 1981 *Electric Circuits* James William Nilsson, Susan A. Riedel, 1993 **Books in Print**, 1991 **Worked**

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and control systems as well as consumer products The book offers numerous design problems and MATLAB examples and focuses on the circuits that we encounter everyday *Scientific and Technical Books in Print* ,1972 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1969 *El-Hi Textbooks in Print* ,1976

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