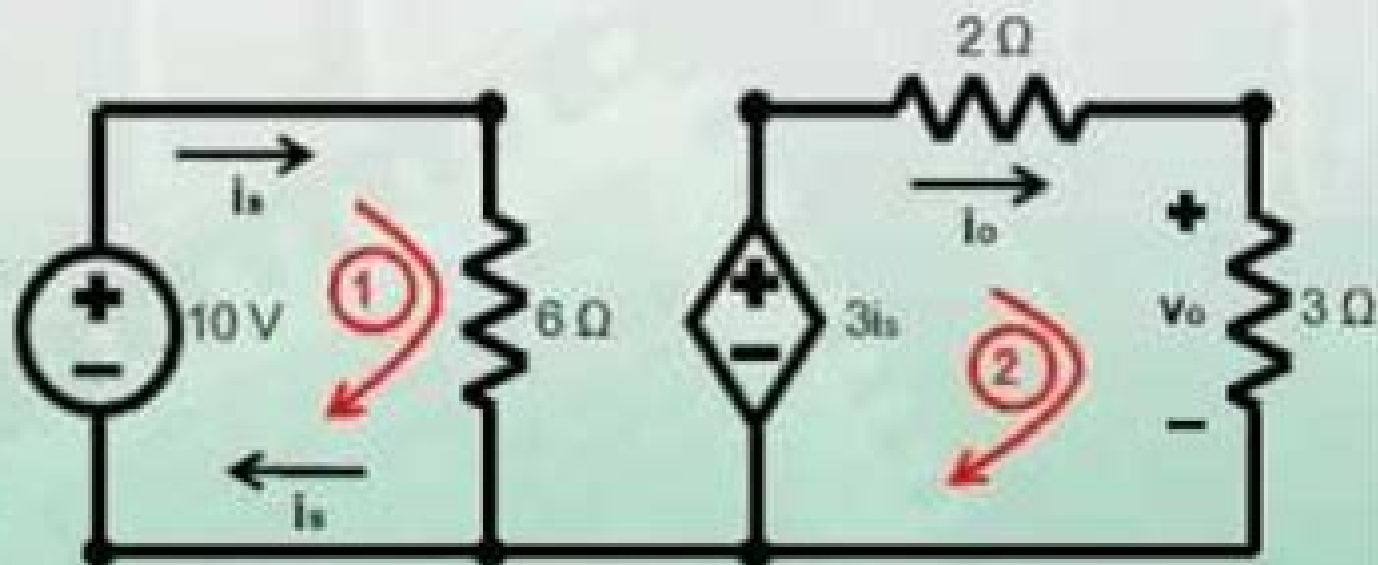


1.6 Circuits Containing A Dependent Source

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 Eng Fundamentals

RAJENDRA PRASAD



Electrical Eng Fundamentals:

Electrical Engineering Fundamentals Toro Vincent Del,1986 *Electrical Engineering Fundamentals* Heinz Graff,1968

Fundamentals of Electrical Engineering and Electronics BL Theraja,2006-06 This Book extensive pruning of the solved Examples in the text Majority of the old examples have been replaced by questions set in the latest examination papers of different engineering colleges and technical institutions **Electrical engineering fundamentals** Robert Brownell Angus,Sylvania Electric Products Lincoln Institute of Northeastern University,1964 *ELECTRICAL ENGINEERING FUNDAMENTALS*. VINCENT DEL. TORO,2015 **Electrical Engineering Fundamentals** S. Bobby Rauf,2020-12-17 Many in their quest for knowledge in engineering find typical textbooks intimidating Perhaps due to an extensive amount of physics theory an overwhelming barrage of math and not enough practical application of the engineering principles laws and equations Therein lies the difference between this text and those voluminous and daunting conventional university engineering textbooks This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and principles in an easy to understand fashion supported by analogies borrowed from day to day examples and other engineering disciplines Many complex electrical engineering concepts for example power factor are examined from multiple perspectives aided by diagrams illustrations and examples that the reader can easily relate to Throughout this book the reader will gain a clear and strong grasp of electrical engineering fundamentals and a better understanding of electrical engineering terms concepts principles laws analytical techniques solution strategies and computational techniques The reader will also develop the ability to communicate with professional electrical engineers controls engineers and electricians on their wavelength with greater confidence Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams including Fundamentals of Engineering FE Professional Engineering PE Certified Energy Manager CEM and many other trade certification tests This text can serve as a compact and simplified electrical engineering desk reference This book provides a brief introduction to the NEC the Arc Flash Code and a better understanding of electrical energy and associated cost If you need to gain a better understanding of myriad battery alternatives available in the market their strengths and weaknesses and how batteries compare with capacitors as energy storage devices this book can be a starting point This book is ideal for engineers engineering students facility managers engineering managers program project managers and other executives who do not possess a current working knowledge of electrical engineering Because of the simple explanations analogies and practical examples employed by the author this book serves as an excellent learning tool for non engineers technical writers attorneys electrical sales professionals energy professionals electrical equipment procurement agents construction managers facility managers and maintenance managers *Fundamentals of Electrical Engineering and Electronics (LPSPE)* Theraja B.L.,2022-01-03 Fundamentals of Electrical Engineering and Electronics is a useful book for

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Fundamentals of

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