

Solutions to Test 2

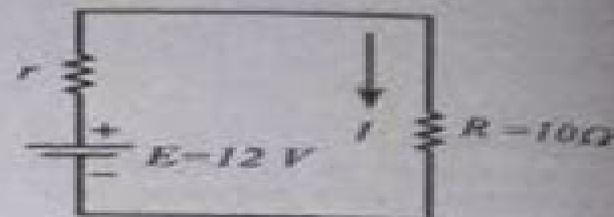
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$$I = \frac{E}{r + R}$$

$$r = \frac{E}{I} - R = \frac{12}{1.18} - 10$$

$$= 0.169 \Omega$$

$$r = 0.2 \Omega$$



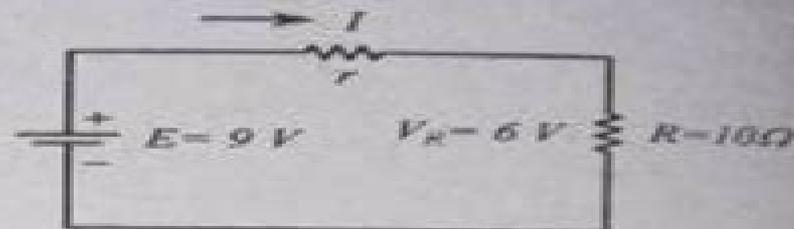
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$$I = \frac{V_R}{R} = \frac{6}{10} = 0.6 \text{ A}$$

$$V_r = E - V_R = 9 - 6 = 3 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{3}{0.6}$$

$$r = 5 \Omega$$



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$$I = \frac{V_R}{R} = \frac{1.3560}{1 \times 10^6}$$

$$I = 1.356 \times 10^{-6} \text{ A}$$

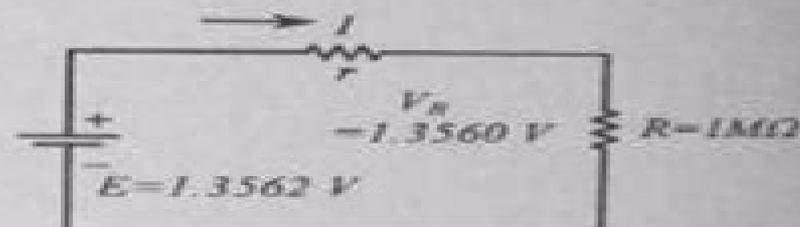
$$V_r = E - V_R$$

$$= 1.3562 - 1.3560$$

$$V_r = 0.0002 \text{ V}$$

$$r = \frac{V_r}{I} = \frac{0.0002}{1.356 \times 10^{-6}}$$

$$r = 147.5 \Omega$$



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Let: r = internal resistance per cell.

$$I = \frac{E}{5r + R_L}$$

Substitute conditions:

$$1.5 = \frac{E}{5r + 4}$$

$$E = 7.5r + 6 \Rightarrow \textcircled{1}$$

$$0.75 = \frac{E}{5r + 9}$$

$$E = 3.75r + 6.75 \Rightarrow \textcircled{2}$$

Equate Eq. 1 to Eq. 2:

$$7.5r + 6 = 3.75r + 6.75$$



Electrical Engineering Solved Problems

Edward Karalis



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Solved Problems for Transient Electrical Circuits Alfonso Bachiller Soler, Ramón Cano Gonzalez, Miguel Angel González Cagigal, 2021-11-25 This book has been designed for helping students and other interested readers to solve first and second order circuits problems in the time domain and to use the Laplace transform The theory is kept concise yet all the necessary concepts are explained and plentiful problems are solved in detail A vast amount of figures is used for a more effective learning All in all this book will help undergraduate and graduate students to develop the necessary skills to solve a broad range of transient exercises It offers a unique complementary text to classical electric circuit textbooks for students and self study as well

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 practical problems 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 *Solved Problems in Electrical Engineering*, 1997 *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 **Electrical Engineering AC-DC Solved Problems** Abdelhak Benkrid, 2013-01 This book is written for students dealing with AC DC It is based on lecturing theory and giving example classes for more than a decade Hundreds of books deal with the theory of electricity in a professional and educational manner The aim of manuscript is not to be part of this valuable collection of these books but just a tool to guide and accompany the students to solve electricity problems in a pedagogical and easy manner This manuscript tends to give the student the ability to analyse a circuit and from the additional information calculate the required value and answer all type of questions regarding the circuit under study This book is divided into two parts The first part deals with dc circuits with different ways of solving the same problem to let the student feeling the importance of some valuable theorems like superposition or Thevenin In the second part we discuss AC circuits with complex number calculation to emphasize the importance of some mathematical conversions Appendices at the end of the manuscript are as important as the solution of the problems Theorems for Electrical Circuits Alfonso Bachiller Soler, Ramón Cano González, Miguel Angel González Cagigal, 2024-12-28 This book focuses on the practical application of specific theorems in solving electrical circuits Specifically it covers the theorems of Superposition Thevenin Norton and Maximum Power Transfer The theory is kept concise yet all the necessary concepts are explained and plentiful problems are solved in detail A vast amount of figures is used for a more effective learning All in all this book helps undergraduate and graduate students to develop the necessary skills to solve a broad range of transient exercises It offers a unique complementary text to classical electric circuit textbooks for students and self study as well Electromagnetic Problems in Electrical Engineering Bernard Hague, 1929 **Advanced Electrical Circuit Analysis** Mehdi Rahmani-Andebili, 2022 This study guide is designed for students taking advanced 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 Exercises cover a wide selection of basic and advanced questions and problem Categorizes and orders the

problems based on difficulty level hence suitable for both knowledgeable and under prepared students Provides detailed and instructor recommended solutions and methods along with clear explanations Can be used along with the core textbooks

Fundamentals of Electrical Engineering, Part 1 S. B. Lal Seksena, Kaustuv Dasgupta, 2017-02-07 The understanding of fundamental concepts of electrical engineering is necessary before moving on to more advanced concepts This book is designed as a textbook for an introductory course in electrical engineering for undergraduate students from all branches of engineering The text is organized into fourteen chapters and provides a balance between theory and applications Numerous circuit diagrams and explicit illustrations add to the readability of the text The authors have covered some important topics such as electromagnetic field theory electrostatics electrical circuits magnetostatics network theorems three phase systems and electrical machines A separate chapter on measurement and instrumentation covers important topics including errors in measurement electro mechanical indicating instruments current transformers and potential transformers in detail Pedagogical features are interspersed throughout the book for better understanding of concepts **Electrical Engineering Reference Manual for the Electrical and Computer PE Exam** John A. Camara, 2007 Electrical Engineering Reference Manual is the most comprehensive reference available for the electrical and computer engineering PE exam **Electrical Engineering**, 1906 Vols for 1887 1946 include the preprint pages of the institute s Transactions **Solving Real World Problems with Electrical Engineering** Laura Loria, 2015-12-15 This introduction to the field of electrical engineering includes an explanation of electricity and currents as well as chapters devoted to specific areas An activity that demonstrates how circuits work helps young readers get a hands on chance to learn about electrical engineering **Electrical Engineering 101** Darren Ashby, 2011-10-13 Electrical Engineering 101 covers the basic theory and practice of electronics starting by answering the question What is electricity It goes on to explain the fundamental principles and components relating them constantly to real world examples Sections on tools and troubleshooting give engineers deeper understanding and the know how to create and maintain their own electronic design projects Unlike other books that simply describe electronics and provide step by step build instructions EE101 delves into how and why electricity and electronics work giving the reader the tools to take their electronics education to the next level It is written in a down to earth style and explains jargon technical terms and schematics as they arise The author builds a genuine understanding of the fundamentals and shows how they can be applied to a range of engineering problems This third edition includes more real world examples and a glossary of formulae It contains new coverage of Microcontrollers FPGAs Classes of components Memory RAM ROM etc Surface mount High speed design Board layout Advanced digital electronics e g processors Transistor circuits and circuit design Op amp and logic circuits Use of test equipment Gives readers a simple explanation of complex concepts in terms they can understand and relate to everyday life Updated content throughout and new material on the latest technological advances Provides readers with an invaluable set of tools and references that they can use in their everyday work

Electrical Engineering Transactions ,1970 3000 Solved Problems In Electric Circuits (schaum S Outline Series) ,
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