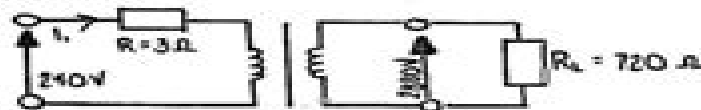


EE-405 ELECTRICAL APPARATUS AND DEVICES PROBLEM SET NO.1

- 1) A SINGLE-PHASE, 240V/2880V IDEAL TRANSFORMER IS SUPPLIED FROM A 240V SOURCE THROUGH A CABLE OF RESISTANCE 3Ω . IF THE LOAD ACROSS THE SECONDARY WINDING IS 720Ω , DETERMINE (a) THE PRIMARY CURRENT FLOWING AND (b) THE POWER DISSIPATED IN THE LOAD RESISTANCE.

GIVEN :



FIND :

- a) I_1
b) P_L

SOLUTION :

$$a) \frac{N_1}{N_2} = \frac{V_1}{V_2} = \frac{240}{2880} = \frac{1}{12}$$

$$R_1 = \left[\frac{N_1}{N_2} \right]^2 R_L$$

$$= \left[\frac{1}{12} \right]^2 (720)$$

$$R_1 = 5\Omega$$

$$R_m = R + R_1$$

$$= 3 + 5$$

$$R_m = 8\Omega$$

$$I_1 = \frac{V_1}{R_m} = \frac{240}{8} = 30A$$

$$\boxed{I_1 = 30A}$$

$$b) \frac{N_1}{N_2} = \frac{I_2}{I_1}$$

$$I_2 = I_1 \left[\frac{N_1}{N_2} \right]$$

$$= 30 \left[\frac{1}{12} \right]$$

$$I_2 = 2.5A$$

$$P_L = I_2^2 R_L$$

$$= (2.5)^2 (720)$$

$$\boxed{P_L = 4500W \text{ or } 4.5kW}$$

Problems And Solutions In Electronics

Chih-Tang Sah



Problems And Solutions In Electronics:

Problems and Solutions in Electronics Roger Loxton, 1994 *Problems in Electronics with Solutions* F. A. Benson, 2012-12-06 Many changes have been made in this edition first to the nomenclature so that the book is in agreement with the International System of Units S I and secondly to the circuit diagrams so that they conform to B S S 3939 The book has been enlarged and now has 546 problems Much more emphasis has been given to semiconductor devices and transistor circuits additional topics and references for further reading have been introduced some of the original problems and solutions have been taken out and several minor modifications and corrections have been made It could be argued that thermionic valve circuits should not have been mentioned since valves are no longer considered important by most electronic designers except possibly for very high power or voltage applications Some of the original problems on valves and valve circuits have been retained however for completeness because the material is still present in many syllabuses and despite the advent and proliferation of solid state devices in recent years the good old fashioned valve looks like being in existence for a long time There are still some topics readers may expect to find included which have had to be omitted others have had less space devoted to them than one would have liked A new feature of this edition is that some problems with answers given at the end of each chapter are left as student exercises so the solutions are not included The author wishes to thank his colleagues Professor P N *Problems in Electronics with Solutions* Frank Atkinson Benson, 1958 **Problems and Solutions in Electronics** R. Loxton, 1994-03-31 This book of problems with worked solutions is designed to provide practice in problem solving for students on undergraduate and HND programmes in Electronics It may be used as a stand alone book or as a companion volume to *Electronics* by Crecraft Gorham and Sparkes Chapman Hall 1992 *Linear Networks And Systems: Algorithms And Computer-aided Implementations: Problems And Solutions* Wai-kai Chen, 1994-02-16 The solutions to problems in the two volume text *Linear Networks and Systems Algorithms and Computer Aided Implementations* are presented in this manual It contains solutions to every problem in the text except a few proofs of identities and the verification of solutions The solutions to the problems for the advanced topics in the last two chapters on analytic functions of a matrix are given in detail for the benefit of those who wish to study the material themselves **Fundamentals Of Solid-state Electronics: Solution Manual** Chih Tang Sah, 1996-09-30 This Solution Manual a companion volume of the book *Fundamentals of Solid State Electronics* provides the solutions to selected problems listed in the book Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state of the art transistor reliability problems which have been taught to advanced undergraduate and graduate students This book is also available as a set with *Fundamentals of Solid State Electronics* and *Fundamentals of Solid State Electronics Study Guide* *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. *Thermal Measurements in Electronics Cooling* Kaveh Azar, 2020-08-26 Filled with careful explanations step by step instructions and useful examples this handbook focuses on real world considerations and applications of thermal measurement methods in electronics cooling. Fifteen experts in thermal engineering combine their expertise to create a complete guide to this complex topic. This practical reference covers all aspects of thermal characterization in electronics cooling and thermal management. The first part of the book introduces the concept of electronics cooling and its associated thermal phenomenon and explains why experimental investigation is required. Subsequent chapters explain methods of measuring different parameters and introduce relevant examples. Sources for locating needed equipment tables checklists and to do lists are included. Sample calculations and methodologies for error analysis ensure that you can put this valuable information to use in your work. *Analog Electronics with LabVIEW* Kenneth L. Ashley, 2002 Projects include many program files in LabView Mathcad and SPICE which professionals would not have time to create on their own. LabView allows engineers to turn their desktop into the instrument. Analog circuit design is still vital in building communications devices the addition of LabView makes this process more precise and time efficient. This book presents a study of analog electronics. It consists of theory and closely coupled experiments which are based entirely on computer based data acquisition using LabView. The topics included treat many of the relevant aspects of basic modern electronics. *Fundamentals of Solid-state Electronics* Chih-Tang Sah, 1996 This Solution Manual a companion volume of the book *Fundamentals of Solid State Electronics* provides the solutions to selected problems listed in the book. Most of the solutions are for the selected problems that had been assigned to the engineering undergraduate students who were taking an introductory device core course using this book. This Solution Manual also contains an extensive appendix which illustrates the application of the fundamentals to solutions of state of the art transistor reliability problems which have been taught to advanced undergraduate and graduate students. *The Electronics Problem*

Solver Research and Education Association,1988 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of electronics currently available with hundreds of electronics problems that cover everything from circuits and transistors to amplifiers and generators Each problem is clearly solved with step by step detailed solutions *Electronic Governance and Open Society: Challenges in Eurasia* Andrei Chugunov,Igor Khodachek,Yuri Misnikov,Dmitrii Trutnev,2020-01-22 This book constitutes the refereed proceedings of the 6th Conference on Electronic Governance and Open Society Challenges in Eurasia EGOSE 2019 held in St Petersburg Russia in November 2019 The 32 revised full papers were carefully reviewed and selected from 82 submissions The papers are organized in topical sections on smart city digital government society and economy digital intelligence data science and cybercrime social networking and media *The Electronics Journal* ,1905

Evolutionary Electronics Ricardo Salem Zebulum,Marco Aurelio Pacheco,Marley Maria Be Vellasco,2018-10-08 From the explosion of interest research and applications of evolutionary computation a new field emerges evolutionary electronics Focused on applying evolutionary computation concepts and techniques to the domain of electronics many researchers now see it as holding the greatest potential for overcoming the drawbacks of conventional design techniques Evolutionary Electronics Automatic Design of Electronic Circuits and Systems by Genetic Algorithms formally introduces and defines this area of research presents its main challenges in electronic design and explores emerging technologies It describes the evolutionary computation paradigm and its primary algorithms and explores topics of current interest such as multi objective optimization The authors examine numerous evolutionary electronics applications draw conclusions about those applications and sketch the future of evolutionary computation and its applications in electronics In coming years the appearance of more and more advanced technologies will increase the complexity of optimization and synthesis problems and evolutionary electronics will almost certainly become a key to solving those problems Evolutionary Electronics is your key to discovering and unlocking the potential of this promising new field *A Functional Description of the Edvac [an Automatically-sequence Serial Binary Electronic Digital Computer* Moore School of Electrical Engineering,1949 *Basic Electronics* ,2019

Electronic Waste Josh Lepawsky,2025-02-06 The United Nations has reported that the world is on track to produce over 180 billion pounds of electronic waste e waste by 2030 This tidal wave of discarded electronic products including cellular phones laptop and desktop computers televisions solar panels major household appliances and telecommunications equipment poses a host of serious environmental and public health problems and challenges Electronic Waste A Reference Handbook provides readers with an illuminating survey of the myriad issues and controversies surrounding the collection

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Solutions to Problems: Electronic and Electrical Engineering L. A. A. Warnes, 1994 Contains the fully worked solutions to the 300 problems included at the end of chapters in *Electronic and Electrical Engineering* Also contains numerous line diagrams

Wireless Communication Electronics by Example Robert Sobot, 2013-11-19 This book is intended for senior undergraduate and graduate students as well as practicing engineers who are involved in design and analysis of radio frequency RF circuits Fully solved tutorial like examples are used to put into practice all major topics required to understand the principles underlying the main sub circuits required to design an RF transceiver and the whole communication system Starting with review of principles in electromagnetic EM transmission and signal propagation through detailed practical analysis of RF amplifier mixer modulator demodulator and oscillator circuit topologies all the way to the system communication theory behind the RF transceiver operation this book systematically covers all relevant aspects in a way that is suitable for a single semester university level course Readers will benefit from the author's sharp focus on radio receiver design demonstrated through hundreds of fully solved realistic examples as opposed to texts that cover many aspects of electronics and electromagnetic without making the required connection to wireless communication circuit design

Electronics Problem Solver (REA) REA Editors, You-Liang (Edward) Gu, 2013-03-19 Each Problem Solver is an insightful and essential study and solution guide chock full of clear concise problem solving gems All your questions can be found in one convenient source from one of the most trusted names in reference solution guides More useful more practical and more informative these study aids are the best review books and textbook companions available Nothing remotely as comprehensive or as helpful exists in their subject anywhere Perfect for undergraduate and graduate studies Here in this highly useful reference is the finest overview of electronics currently available with hundreds of electronics problems that cover everything from circuits and transistors to amplifiers and generators Each problem is clearly solved with step by step detailed solutions

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Students have generally found electronics a difficult subject to understand and learn Despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electronics continue

to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of electronics terms also contribute to the difficulties of mastering the subject. In a study of electronics, REA found the following basic reasons underlying the inherent difficulties of electronics: No systematic rules of analysis were ever developed to follow in a step by step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by an electronics professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve pro

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