

CHAPTER 3

Exercises

E3.1 $v(t) = q(t) / C = 10^{-5} \sin(10^3 t) / (2 \times 10^{-6}) = 0.5 \sin(10^3 t) \text{ V}$
 $i(t) = C \frac{dv}{dt} = (2 \times 10^{-6})(0.5 \times 10^3) \cos(10^3 t) = 0.1 \cos(10^3 t) \text{ A}$

E3.2 Because the capacitor voltage is zero at $t = 0$, the charge on the capacitor is zero at $t = 0$.

$$\begin{aligned} q(t) &= \int_0^t i(x) dx + 0 \\ &= \int_0^t 10^{-3} dx = 10^{-3} t \quad \text{for } 0 \leq t \leq 2 \text{ ms} \\ &= \int_0^{2 \times 10^{-3}} 10^{-3} dx + \int_{2 \times 10^{-3}}^t -10^{-3} dx = 4 \times 10^{-6} - 10^{-3} t \quad \text{for } 2 \text{ ms} \leq t \leq 4 \text{ ms} \end{aligned}$$

$$\begin{aligned} v(t) &= q(t) / C \\ &= 10^3 t \quad \text{for } 0 \leq t \leq 2 \text{ ms} \\ &= 40 - 10^3 t \quad \text{for } 2 \text{ ms} \leq t \leq 4 \text{ ms} \end{aligned}$$

$$\begin{aligned} p(t) &= i(t)v(t) \\ &= 10t \quad \text{for } 0 \leq t \leq 2 \text{ ms} \\ &= -40 \times 10^{-3} + 10t \quad \text{for } 2 \text{ ms} \leq t \leq 4 \text{ ms} \end{aligned}$$

$$\begin{aligned} w(t) &= Ct^2(t) / 2 \\ &= 5t^2 \quad \text{for } 0 \leq t \leq 2 \text{ ms} \\ &= 0.5 \times 10^{-7} (40 - 10^3 t)^2 \quad \text{for } 2 \text{ ms} \leq t \leq 4 \text{ ms} \end{aligned}$$

in which the units of charge, electrical potential, power, and energy are coulombs, volts, watts and joules, respectively. Plots of these quantities are shown in Figure 3.8 in the book.

E3.3 Refer to Figure 3.10 in the book. Applying KVL, we have
 $v = v_1 + v_2 + v_3$

Then using Equation 3.8 to substitute for the voltages we have

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Modern Physics Student Solutions Manual Mark J. Llewellyn, Paul A. Tipler, Ralph Llewellyn, 2007-12-15 Student Solutions Manual to accompany Modern Physics fifth edition Recent Library Additions, 1992 **Electrical and Electronic**

Principles and Technology, 5th ed John Bird, 2013-11-12 This much loved textbook introduces electrical and electronic principles and technology to students who are new to the subject Real world situations and engineering examples put the theory into context The inclusion of worked problems with solutions really help aid your understanding and further problems then allow you to test and confirm you have mastered each subject In total the books contains 410 worked problems 540 further problems 340 multiple choice questions 455 short answer questions and 7 revision tests with answers online This an ideal text for vocational courses enabling a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications It will also be an excellent refresher for foundation and undergraduate degree students It is supported by a companion website that contains solutions to the 540 questions in the practice exercises formulae to help students answer the questions multiple choice questions linked to each of the 23 chapters and information about the famous mathematicians and scientists mentioned in the book Lecturers also have access to full solutions and the marking scheme for the 7 revision tests lesson plans and illustrations from the book Electrical Engineering Sample Examination Raymond B. Yarbrough, 1995

Electrical Circuit Theory and Technology, 5th ed John Bird, 2014-02-20 This much loved textbook explains the principles of electrical circuit theory and technology so that students of electrical and mechanical engineering can master the subject Real world situations and engineering examples put the theory into context The inclusion of worked problems with solutions help you to learn and further problems then allow you to test and confirm you have fully understood each subject In total the book contains 800 worked problems 1000 further problems and 14 revision tests with answers online This an ideal text for foundation and undergraduate degree students and those on upper level vocational engineering courses in particular electrical and mechanical It provides a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications This edition has been updated with developments in key areas such as semiconductors transistors and fuel cells along with brand new material on ABCD parameters and Fourier's Analysis It is supported by a companion website that contains solutions to the 1000 questions in the practice exercises formulae to help students answer the questions and information about the famous mathematicians and scientists mentioned in the book Lecturers also have access to full solutions and the marking scheme for the 14 revision tests lesson plans and illustrations from the book **Engineer Your**

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Quick Reference for the Electrical Engineering PE Exam Kenneth A. Nelson,1997 Quick Reference for the Electrical Engineering PE Exam provides a compilation of all the important tables formulas and data needed during the exam

The Electrical Engineer ,1911 *A Concise Handbook of Mathematics, Physics, and Engineering Sciences* Andrei D. Polyanin,Alexei Chernoutsan,2010-10-18 A Concise Handbook of Mathematics Physics and Engineering Sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay special attention to issues that many engineers and students

Engineering Education ,1982 *A.L.A. Catalog* ,1904 *Navy Civil Engineer* ,1981 **A.L.A. Catalog** American Library Association,1904 Science for Engineering John Bird,2015-09-07 A practical introduction to the engineering science required for engineering study and practice Science for Engineering is an introductory textbook that assumes no prior background in engineering This new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their exams and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications John Bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles This book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems Colour layout helps navigation and highlights key learning points formulae and exercises Understanding can be tested with the 580 worked examples 1300 further problems and 425 multiple choice questions contained within the book Focuses on real world situations and examples in order to maximise relevance to the student reader This book is supported by a companion website of materials that can be found at www.routledge.com/bird this resource including fully worked solutions of all the further problems for students to access for the first time and the full solutions and marking schemes for the revision tests found within the book for lecturers instructors use In addition all 433 illustrations will be available for downloading by staff

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