

CHAPTER 2 SOLUTIONS

2/21/10

2-1) Square waves and triangular waves for voltage and current are two examples.

- 2-2) a) $p(t) = v(t)i(t) = \frac{v^2(t)}{R} = \frac{[170 \sin(377t)]^2}{10} = 2890 \sin^2 377t \text{ W}.$
 b) peak power = 2890 W.
 c) $P = 2890/2 = 1445 \text{ W}.$
-

- 2-3) $v(t) = 5 \sin 2\pi t \text{ V}.$
 a) $4 \sin 2\pi t \text{ A}.$; $p(t) = v(t)i(t) = 20 \sin^2 2\pi t \text{ W}.$; $P = 10 \text{ W}.$
 b) $3 \sin 4\pi t \text{ A}.$; $p(t) = 15 \sin(2\pi t) \sin(4\pi t) \text{ W}.$; $P = 0$
-

- 2-4) a)
$$p(t) = v(t)i(t) = \begin{cases} 0 & 0 < t < 50 \text{ ms} \\ 40 & 50 \text{ ms} < t < 70 \text{ ms} \\ 0 & 70 \text{ ms} < t < 100 \text{ ms} \end{cases}$$

 b)
$$P = \frac{1}{T} \int_0^T v(t)i(t) dt = \frac{1}{100 \text{ ms}} \int_{50 \text{ ms}}^{70 \text{ ms}} 40 dt = 8.0 \text{ W}.$$

 c)
$$W = \int_0^T p(t) dt = \int_{50 \text{ ms}}^{70 \text{ ms}} 40 dt = 800 \text{ mJ}; \text{ or } W = PT = (8 \text{ W})(100 \text{ ms}) = 800 \text{ mJ}.$$
-

- 2-5) a)
$$p(t) = v(t)i(t) = \begin{cases} 70 \text{ W}, & 0 < t < 6 \text{ ms} \\ -50 \text{ W}, & 6 \text{ ms} < t < 10 \text{ ms} \\ 40 \text{ W}, & 10 \text{ ms} < t < 14 \text{ ms} \\ 0 & 14 \text{ ms} < t < 20 \text{ ms} \end{cases}$$

 b)
$$P = \frac{1}{T} \int_0^T p(t) dt = \frac{1}{20 \text{ ms}} \left[\int_0^{6 \text{ ms}} 70 dt + \int_{6 \text{ ms}}^{10 \text{ ms}} (-50) dt + \int_{10 \text{ ms}}^{14 \text{ ms}} 40 dt \right] = 19 \text{ W}.$$

 c)

Tipler Chapter 2 solutions

Paul A. Tipler, Gene Mosca



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Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20 Todd Ruskell, 2008 Physics for Scientists and Engineers Student Solutions Manual David Mills, Charles Adler, 2003-04-04 This solutions manual for students provides answers to approximately 25 per cent of the text's end of chapter physics problems in the same format and with the same level of detail as the worked examples in the textbook Physics for Scientists and Engineers Paul A. Tipler, 1999-10-13 For nearly 25 years Tipler's standard setting textbook has been a favorite for the calculus based introductory physics course With this edition the book makes a dramatic re emergence adding innovative pedagogy that eases the learning process without compromising the integrity of Tipler's presentation of the science For instructor and student convenience the Fourth Edition of Physics for Scientists and Engineers is available as three paperback volumes Vol 1 Mechanics Oscillations and Waves Thermodynamics 768 pages 1 57259 491 8 Vol 2 Electricity and Magnetism 544 pages 1 57259 492 6 Vol 3 Modern Physics Quantum Mechanics Relativity and The Structure of Matter 304 pages 1 57259 490 X or in two hardcover versions Regular Version Chaps 1 35 and 39 0 7167 3821 X Extended Version Chaps 1 41 0 7167 3822 8 To order the volume or version you need use the links above to go to each volume or version's specific page Download errata for this book This errata is for the first printing of Tipler's PSE 4 e The errors have been corrected in subsequent printings of the book but we continue to make this errata available for those students and teachers still using old copies from the first printing Download as a Microsoft Word document or as a pdf file Physics for Scientists and Engineers, Volume 2A: Electricity Paul A. Tipler, Gene Mosca, 2003-07-10 New Volume 2A edition of the classic text now more than ever tailored to meet the needs of the struggling student **Physics for Scientists and Engineers, Volume 1. Mechanics** Paul A. Tipler, Gene Mosca, 2003-07-10 New Volume 1A edition of the classic text now more than ever tailored to meet the needs of the struggling student **Physics for Scientists and Engineers, Volume 1: Mechanics, Oscillations and Waves; Thermodynamics** Paul A. Tipler, Gene Mosca, 2003-07-10 This is the standard text for introductory physics courses taken by science and engineering students This edition has been extensively revised with new artwork and updated examples **Bangs, Crunches, Whimpers, and Shrieks** John Earman, 1995 Others hoped that peaceful coexistence with singularities could be achieved by proving a form of Roger Penrose's cosmic censorship hypothesis which would place singularities safely inside black holes **Oscillation Theory for Second Order Dynamic Equations** Ravi P. Agarwal, Said R. Grace, Donal O'Regan, 2002-11-21 The qualitative theory of dynamic equations is a rapidly developing area of research In the last 50 years many scholars have studied the oscillation theory of ordinary functional neutral partial and impulsive differential equations Many books deal with oscillation theory but in a way that appeals only to researchers already familiar with the subject In an effort to bring the topic to a new and broader audience the authors clearly explain oscillation theory for second order differential equations They include several examples to illustrate the theory and to inspire new direction

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