

College Physics 8th Edition by Serway and Vuille

Answers to assigned problems

Chapter 18

Problem 1

(a) $v = 4.80 \text{ m/s}$

Problem 2

(a) $W = 107.1 \text{ J}$

(b) $E_a = 1.000 \text{ J}$

$E_b = 1.000 \text{ J}$

$E_c = 1.07 \text{ J}$

$E_{\text{tot}} = 3.070 \text{ J}$

Problem 3

(a) $W = 5.00 \text{ J}$

(b) $W = 7.00 \text{ J}$

(c) $W = 2.50 \text{ J}$

(d) $W = 4.50 \text{ J}$

(e) $E = 1.00 \text{ J}$

(f) $E = 0.00 \text{ J}$

(g) $E = 1.00 \text{ J}$

(h) $E = 0.00 \text{ J}$

Problem 13

$E_{\text{tot}} = 0.020 \text{ J}$

Problem 17

$E_a = 0.750 \text{ J}$

$E_b = 1.00 \text{ J}$

$v = 13.0 \text{ m/s}$

Problem 20

$E_a = -1.00 \text{ J}$

$E_b = 1.00 \text{ J}$

Problem 25

(a) Yes, this scenario could occur for a charged object in a magnetic field.

(b) $E_a = 0.5 \text{ J}$

$E_b = 0.5 \text{ J}$

$E_c = 1.0 \text{ J}$

Problem 31

(a) $v = 1.00 \text{ m/s}$

(b) $Q = 2.00 \times 10^{-12} \text{ C}$ and $0.000 \text{ }\mu\text{C}$

Problem 33

$Q = 1.00 \times 10^{-12} \text{ C}$ and $0.000 \text{ }\mu\text{C}$

Problem 39

(a) $E_{\text{tot}} = 0.00 \text{ J}$

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K Morrison



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Student Solutions Manual, Volume 2 for Serway/Jewett's Physics for Scientists and Engineers, 8th John R. Gordon, John W. Jewett, Ralph V. McGrew, Raymond A. Serway, 2010 For Chapters 23-46 this manual contains detailed solutions to approximately 20% of the problems per chapter indicated in the textbook with boxed problem numbers The manual also features a skills section important notes from key sections of the text and a list of important equations and concepts Forthcoming Books Rose Arny, 1999 *Subject Guide to Books in Print*, 1991 McGraw-Hill Concise Encyclopedia of Engineering McGraw Hill, 2005-06-15 Hundreds of well illustrated articles explore the most important fields of science Based on content from the McGraw Hill Concise Encyclopedia of Science Technology Fifth Edition the most widely used and respected science reference of its kind in print each of these subject specific quick reference guides features Detailed well illustrated explanations not just definitions Hundreds of concise yet authoritative articles in each volume An easy to understand presentation accessible and interesting to non specialists A portable convenient format Bibliographies appendices and other information supplement the articles Books in Print, 1977 **Books in Print Supplement**, 1994

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