

CHAPTER 16: OSCILLATORY MOTION AND WAVES

16.1 HOOKE'S LAW: STRESS AND STRAIN REVISITED

1. Fish are hung on a spring scale to determine their mass (most fishermen feel no obligation to truthfully report the mass). (a) What is the force constant of the spring in such a scale if it the spring stretches 8.00 cm for a 10.0 kg load? (b) What is the mass of a fish that stretches the spring 5.50 cm? (c) How far apart are the half-kilogram marks on the scale?

Solution

$$(a) \quad F = -kx \Rightarrow k = -\frac{mg}{x} = -\frac{(10.0 \text{ kg})(9.80 \text{ m/s}^2)}{-0.0800 \text{ m}} = 1.225 \times 10^3 \text{ N/m} = \underline{1.23 \times 10^3 \text{ N/m}}$$

$$(b) \quad F = mg = -kx \Rightarrow k = -\frac{kx}{g} = -\frac{(1.225 \times 10^3 \text{ N/m})(-0.0550 \text{ m})}{9.80 \text{ m/s}^2} = 6.875 \text{ kg} = \underline{6.88 \text{ kg}}$$

$$(c) \quad x = \frac{mg}{k} = \frac{(0.500 \text{ kg})(9.80 \text{ m/s}^2)}{1.225 \times 10^3 \text{ N/m}} = 4.00 \times 10^{-3} \text{ m} = \underline{4.00 \text{ mm}}$$

2. It is weigh-in time for the local under-85-kg rugby team. The bathroom scale used to assess eligibility can be described by Hooke's law and is depressed 0.75 cm by its maximum load of 120 kg. (a) What is the spring's effective spring constant? (b) A player stands on the scales and depresses it by 0.48 cm. Is he eligible to play on this under-85-kg team?

Solution

$$(a) \quad k = -\frac{F}{x} = -\frac{mg}{x} = -\frac{(120 \text{ kg})(9.80 \text{ m/s}^2)}{-0.750 \times 10^{-2} \text{ m}} = \underline{1.57 \times 10^4 \text{ N/m}}$$

$$(b) \quad F = -kx$$

$$mg = -kx \Rightarrow m = \frac{-kx}{g} = \frac{-(1.57 \times 10^4 \text{ N/m})(0.0048 \text{ m})}{-9.80 \text{ m/s}^2} = 76.90 \text{ kg} = \underline{77 \text{ kg}}$$

Yes, he is eligible to play.

Physics Solutions Manual Chapter 13

Mark W. Maier, Eberhardt Rechtin



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Fundamentals of Physics, Student's Solutions Manual David Halliday,J. Richard Christman,1997 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning Fundamentals of Physics, , Student's Solutions Manual J. Richard Christman,David Halliday,Edward Derrin,2001 No other book on the market today can match the success of Halliday Resnick and Walker s Fundamentals of Physics In a breezy easy to understand style the book offers a solid understanding of fundamental physics concepts and helps readers apply this conceptual understanding to quantitative problem solving **Solutions for Selected Exercises and Problems to Accompany Physics, Second Edition, by Paul A. Tipler** E. Corinaldesi,1985 **Modern Atomic And Nuclear Physics (Revised Edition): Problems And Solutions Manual** Fujia Yang,Joseph H Hamilton,2010-06-01 This problems and solutions manual is intended as a companion to an earlier textbook Modern Atomic and Nuclear Physics Revised Edition World Scientific 2010 This manual presents solutions to many end of chapter problems in the textbook These solutions are valuable to the instructors and students working in the modern atomic field Students can master important information and concept in the process of looking at solutions to some problems and become better equipped to solve other problems that the instructors propose **Subatomic Physics Solutions Manual (3rd Edition)** Ernest M Henley,Alejandro Garcia,2008-02-15 This is the solutions manual for many particularly odd numbered end of chapter problems in Subatomic Physics 3rd Edition by Henley and Garcia The student who has worked on the problems will find the solutions presented here a useful check on answers and procedures Solutions Manual to Accompany Eisberg/Lerner Physics, Foundations and Applications, Volume I William H. Ingham,1981 **Student Solutions Manual for Non Linear Dynamics and Chaos** Mitchal Dichter,2024-03-15 This official Student Solutions Manual includes solutions to the odd numbered exercises featured in the third edition of Steven Strogatz s classic text Nonlinear Dynamics and Chaos With Applications to Physics Biology Chemistry and Engineering The textbook and accompanying Student Solutions Manual are aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject Complete with graphs and worked out solutions this manual demonstrates techniques for students to analyze differential equations bifurcations chaos fractals and other subjects Strogatz explores in his popular book **Solutions Manual to Accompany Physics and Physics Classical and Modern [by] W. Edward Gettys, Frederick J. Keller, Malcolm J. Skove** Stanley Shepherd,1989 **Complete Solutions Manual to Accompany Fundamentals of Physics, Fifth Edition [by] David Halliday, Robert Resnick, Jearl Walker: Chapters 1-21** Jerry J. Shi,1997 *Student Solutions Manual for Hecht's Physics* Jerry Shi,Eugene Hecht,1998 Includes answers to odd numbered discussion questions answers with explanations to odd numbered multiple choice questions and solutions to selected odd numbered problems not already solved in the book **Solid State Physics** John J. Quinn,Kyung-Soo Yi,2018-02-23 This book provides the basis for a

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Computational Techniques for Fluid Dynamics Karkenahalli Srinivas, Clive A.J. Fletcher, 2012-12-06 This complementary text provides detailed solutions for the problems that appear in Chapters 2 to 18 of *Computational Techniques for Fluid Dynamics* CTFD Second Edition Consequently there is no Chapter 1 in this solutions manual The solutions are indicated in enough detail for the serious reader to have little difficulty in completing any intermediate steps Many of the problems require the reader to write a computer program to obtain the solution Tabulated data from computer output are included where appropriate and coding enhancements to the programs provided in CTFD are indicated in the solutions In some instances completely new programs have been written and the listing forms part of the solution All of the program modifications new programs and input output files are available on an IBM compatible floppy direct from C A J Fletcher Many of the problems are substantial enough to be considered mini projects and the discussion is aimed as much at encouraging the reader to explore extensions and what if scenarios leading to further development as at providing neatly packaged solutions Indeed in order to give the reader a better introduction to CFD reality not all the problems do have a happy ending Some suggested extensions fail but the reasons for the failure are illuminating *The Art of Systems Architecting* Mark W. Maier, Eberhardt Rechtin, 2025-06-05 The Art of Systems Architecting Fourth Edition provides structured heuristics to improve the least structured most art like elements of systems design It offers unique techniques to bridge the difference between scientific engineering and qualitative design along with comprehensive methods for combining architectural design with digital engineering This book illustrates how to go from model based systems architecture to model based systems engineering and includes case studies of good and bad architectural decision making in major systems Changes to this edition include materials on architecture processes architecture description frameworks and integration with model based systems engineering MBSE and digital engineering The publication of the ANSI IEEE 1471 and ISO IEC 42010 standards on

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