

Holt Physics

Problem 6B**FORCE AND MOMENTUM****PROBLEM**

A student with a mass of 55 kg rides a bicycle with a mass of 11 kg. A net force of 125 N to the east accelerates the bicycle and student during a time interval of 3.0 s. What is the final velocity of the bicycle and student? Assume the student and bicycle are initially at rest.

SOLUTION

Given:

$$m_s = 55 \text{ kg}$$

$$m_b = 11 \text{ kg}$$

$$F = 125 \text{ N to the east}$$

$$\Delta t = 3.0 \text{ s}$$

$$v_i = 0 \text{ m/s}$$

Unknown:

$$v_f = ?$$

Use the impulse-momentum theorem to solve for v_f .

$$F\Delta t = \Delta p = mv_f - mv_i$$

$$v_f = \frac{F\Delta t + mv_i}{m}$$

$$m = m_s + m_b = 55 \text{ kg} + 11 \text{ kg} = 66 \text{ kg}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s}) - (66 \text{ kg})(0 \text{ m/s})}{66 \text{ kg}}$$

$$v_f = \frac{(125 \text{ N})(3.0 \text{ s})}{66 \text{ kg}}$$

$$v_f = \boxed{5.7 \text{ m/s to the east}}$$

ADDITIONAL PRACTICE

1. A net force of 10.0 N to the right pushes a 3.0 kg book across a table. If the force acts on the book for 5.0 s, what is the book's final velocity? Assume the book to be initially at rest.
2. A 60.0 g egg dropped from a window is caught by a student. If the student exerts a net force of -1.5 N over a period of 0.25 s to bring the egg to a stop, what is the egg's initial speed?
3. A child riding a sled is pulled down a snowy hill by a force of 75 N. If the child and sled have a combined mass of 55 kg, what is their speed after 7.5 s? Assume the child and sled are initially at rest.
4. A billiard ball with a mass of 0.195 kg and a velocity of 0.850 m/s to the right is deflected by the cushioned edge of the billiard table. The cushion exerts a force of 3.50 N to the left for 0.0750 s. What is the ball's final velocity?

Holt Physics Appendix Problem Answers

Xiang Xie



Holt Physics Appendix Problem Answers:

Holt Physics Raymond A. Serway, 2002 **Numerical Methods in Fluid Dynamics** Maurice Holt, 2012-12-06 From the reviews of the first edition This book is directed to graduate students and research workers interested in the numerical solution of problems of fluid dynamics primarily those arising in high speed flow The book is well arranged logically presented and well illustrated It contains several FORTRAN programmes with which students could experiment It is a practical book with emphasis on methods and their implementation It is an excellent text for the fruitful research area it covers and is highly recommended *Journal of Fluid Mechanics* 1 From the reviews of the second edition The arrangement of chapters in the book remains practically the same as that in the first edition 1977 except for the inclusion of Glimm's method This book is highly recommended for both graduate students and researchers *Applied Mechanics Reviews* 1 *Modern Physics* Paul Allen Tipler, Ralph Llewellyn, 2003 Tipler and Llewellyn's acclaimed text for the intermediate level course not the third semester of the introductory course guides students through the foundations and wide ranging applications of modern physics with the utmost clarity without sacrificing scientific integrity Turbulent Shear Flows 4 L.J.S. Bradbury, F. Durst, B.E. Launder, F.W. Schmidt, J.H. Whitelaw, 2012-12-06 The Fourth International Symposium on Turbulent Shear Flows took place at Karlsruhe University in Germany The papers presented at this Symposium encompassed a similar range to that of the previous meetings with greater emphasis placed on experimental work and continued a trend towards the examination of complex flows Once again three dimensional recirculating and reacting flows featured strongly in the programme and were complemented by consideration of two phase flows and discussions of both numerical and experimental techniques The Symposium brought together some 300 participants from all over the world and it was evident that there is a need for Turbulent Shear Flows Symposia in order to obtain and communicate new information useful to researchers in the field of turbulent flows and of interest to engineers who design flow equipment This volume contains 27 papers selected from more than 100 presentations at the Symposium which have been reviewed and edited before publication Together they provide an indication of the status of current knowledge on the subjects represented at the Symposium They are grouped into four sections namely Fundamentals Free Flows Boundary Layers Reacting Flows As in previous volumes in this series each section begins with an introductory article considering the papers which follow in the broader context of available literature and current research **Computer Studies of Phase Transitions and Critical Phenomena** Ole G. University of Southern Denmark, 2012-12-06 This book is based on research carried out by the author in close collaboration with a number of colleagues In particular I wish to thank Per Bak A John Berlinsky Hans C Fogedby Barry Frank S 1 Knak Jensen David Mukamel David Pink and Martin Zuckermann for fruitful and extremely stimulating cooperation It is a pleasure for me to note that active interaction with most of these colleagues is still continuing The work has been performed at several different institutions notably the Department of Chemistry Aarhus University Denmark and the Department of Physics University of

British Columbia Canada I wish to thank the Department of Chemistry at Aarhus University for providing me with splendid research facilities over the years From May 1980 to August 1981 I visited the Department of Physics at the University of British Columbia and I would like to express my sincere gratitude to members of the department for providing me with excellent working conditions My special thanks are due to Professor Myer Bloom who introduced me to the field of phase transitions in biological membranes and in whose biomembrane group I found an extremely stimulating scientific atmosphere happily married with a most agreeable social climate During the last two years when a major part of this work was carried out I was supported by ALS De Danske Spritfabrikker through their Jubilæumslegat of 1981 Their support is gratefully acknowledged

Problems in Thermodynamics and Statistical Physics Peter T. Landsberg, 2014-06-10 Well respected widely used volume presents problems and full solutions related to a wide range of topics in thermodynamics statistical physics statistical mechanics Suitable for undergraduates and graduate students self study reference 1989 edition

Finite Difference Methods in Heat Transfer M. Necati Özisik, 2017-07-12 Finite Difference Methods in Heat Transfer presents a clear step by step delineation of finite difference methods for solving engineering problems governed by ordinary and partial differential equations with emphasis on heat transfer applications The finite difference techniques presented apply to the numerical solution of problems governed by similar differential equations encountered in many other fields Fundamental concepts are introduced in an easy to follow manner Representative examples illustrate the application of a variety of powerful and widely used finite difference techniques The physical situations considered include the steady state and transient heat conduction phase change involving melting and solidification steady and transient forced convection inside ducts free convection over a flat plate hyperbolic heat conduction nonlinear diffusion numerical grid generation techniques and hybrid numerical analytic solutions

The Independent, 1913 *Computational Methods in Physics* Simon Širca, Martin Horvat, 2025-04-01 This textbook provides a compendium of numerical methods to assist physics students and researchers in their daily work It carefully considers error estimates stability and convergence issues the choice of optimal methods and techniques to increase program execution speeds The book supplies numerous examples throughout the chapters that are concluded by more comprehensive problems with a strong physics background Instead of uncritically employing modern black box tools the readers are encouraged to develop a more ponderous and skeptical approach This revised and expanded edition now includes a new chapter on numerical integration and stable differentiation as well as fresh material on optimal filtering integration of gravitational many body problems computation of Poincaré maps regularization of orbits singular Sturm Liouville problems techniques for time evolution and spatial treatment of semi infinite domains in spectral methods and phase retrieval It also brings updated discussions of algebraic problems involving sparse matrices and of high resolution schemes for partial differential equations

Quarks, Nuclei And Stars: Memorial Volume Dedicated For Gerald E Brown Jeremy W Holt, Thomas T S Kuo, Kok Khoo Phua, Mannque Rho, Ismail Zahed, 2017-03-27 This memorial

volume is dedicated to physicist Gerald E Brown 1926 2013 or Gerry as he was known to his many students postdocs colleagues and friends As written by one of the contributors to this book Gerry was an inspiring father figure for generations of theoretical nuclear physicists and a great human being This book covers a wide range of topics in nuclear physics including nuclear structure two and three body nuclear forces strangeness nuclear physics chiral symmetry hadrons in dense medium hidden local symmetry heavy quark symmetry cosmic neutrinos nuclear double beta decay neutron stars gravitational waves renormalization group methods exotic nuclei electron ion collider EIC and much more Most of the authors are Gerry s former students and collaborators We hope readers will find this book very interesting not only for its physics content but also for the window it gives into Gerry s personal legacy and humanity This book has vivid recollections of Gerry at Stony Brook Princeton and Copenhagen together with his humor and his very special intuitive way of thinking

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