

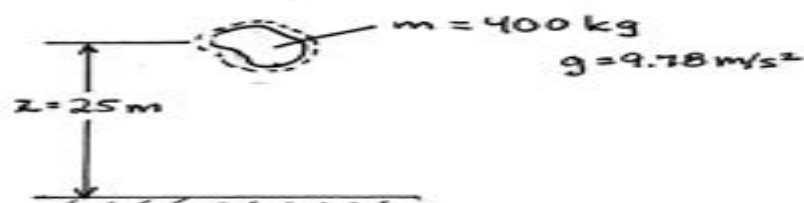
PROBLEM 2.2*

KNOWN: An object of known mass is located at a specified elevation relative to the surface of the earth.

FIND: Determine gravitational potential energy of the object.

SCHEMATIC & GIVEN DATA:

ASSUMPTIONS: (1) The object is a closed system. (2) The acceleration of gravity is constant.



ANALYSIS: The gravitational potential energy is

$$\begin{aligned} PE &= m g z \\ &= (400 \text{ kg})(9.78 \frac{\text{m}}{\text{s}^2})(25 \text{ m}) \left| \frac{1 \text{ N}}{\text{kg} \cdot \text{m}/\text{s}^2} \right| \left| \frac{1 \text{ kN}}{1000 \text{ N}} \right| \left| \frac{1 \text{ kJ}}{1 \text{ kN} \cdot \text{m}} \right| \quad PE \\ &= 97.8 \text{ kJ} \end{aligned}$$

PROBLEM 2.3*

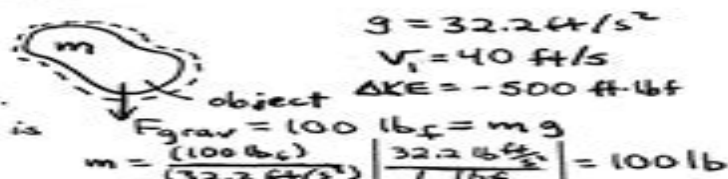
KNOWN: An object of known weight undergoes a specified change in its kinetic energy while its potential energy increases.

FIND: Determine the final velocity.

SCHEMATIC & GIVEN DATA:

ASSUMPTION: The object is a closed system.

ANALYSIS: The change in kinetic energy is



$$\Delta KE = \frac{1}{2} m (V_2^2 - V_1^2)$$

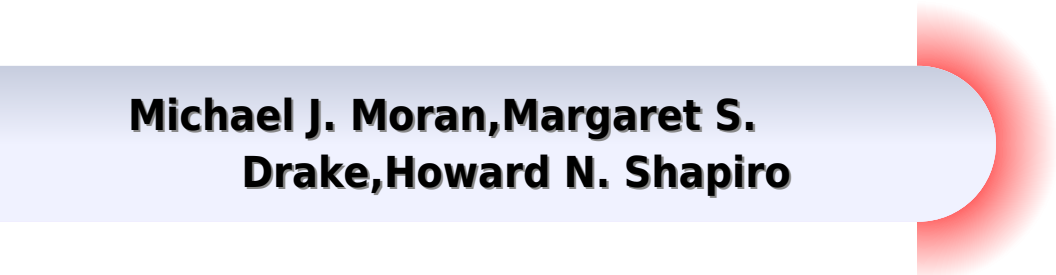
Thus, solving for V_2 and inserting values and a unit conversion factor

$$\begin{aligned} V_2 &= \sqrt{\frac{2 \Delta KE}{m} + V_1^2} \\ &= \sqrt{\frac{2(-500 \text{ ft} \cdot \text{lb}_f)}{(100 \text{ lb})} \left| \frac{32.2 \text{ lb} \cdot \text{ft}/\text{s}^2}{1 \text{ lb}_f} \right| + (40 \text{ ft}/\text{s})^2} \\ &= 35.75 \text{ ft}/\text{s} \end{aligned} \quad V_2$$

1. The analysis makes no use of the information related to potential energy.

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**Michael J. Moran, Margaret S.
Drake, Howard N. Shapiro**



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Fundamentals of Engineering Thermodynamics Solutions Manual Michael J. Moran, 1999-12-01 **Fundamentals of Engineering Thermodynamics** Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2010-12-07

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Interactive Thermodynamics V1.5 with User's Manual Michael J. Moran, Howard N. Shapiro, Intellipro, Inc., Ron M. Nelson, 1998-08-13 *Fundamentals of Engineering Thermodynamics, Student Problem Set Supplement* Michael J. Moran, Margaret S. Drake, Howard N. Shapiro, 2001-01-17 The revision of this market leading text offers more to students and to faculty. Responding to market requests, significant new pedagogy has been added to make the text an easier study tool. In addition, more qualitative material has been included to help students understand chapter content at a conceptual level. A new art program gives more realism to engineering devices and systems. To help faculty and students, a new technology package has been developed that includes a website, Thermodynamics Design Online, an Instructor's CD ROM and IT V2.0.

Future Grid-Scale Energy Storage Solutions Ahmad Arabkoohsar, 2023-03-25 Providing a detailed understanding of why heat and electricity energy storage technologies have developed so rapidly, *Future Grid Scale Energy Storage Solutions: Mechanical and Chemical Technologies and Principles* presents the required fundamentals for techno-economic and environmental analysis of various grid scale energy storage technologies. Through a consistent framework, each chapter outlines state-of-the-art advances, benefits and challenges, energy and exergy analyses, models of these technologies as well as an elaboration on their performance under dynamic and off design operating conditions. Chapters include a case study analysis section giving a detailed understanding of the systems thermodynamics and economic and environmental performance in real operational conditions and wrap up with a discussion of the future prospects of these technologies from commercial and research perspectives. This book is a highly beneficial reference for researchers and scientists dealing with grid scale energy storage systems as a single comprehensive book providing the information and fundamentals required to do modeling analysis and/or feasibility studies of such systems. Features all the major mechanical and chemical energy storage systems including electricity and thermal energy storage methods. Includes step by step energy and exergy modeling including off design performance modeling. Provides future perspectives for technologies describing how they will contribute to the future smart energy systems.

Make and Test Projects in Engineering Design Andrew E. Samuel, 2006-01-19 Make and test projects are used as introductory design experiences in almost every engineering educational institution world wide. However, the educational benefits and costs associated with these projects have been seldom examined. *Make and Test Projects in Engineering Design* provides a serious examination of the design of make and test projects and their associated educational values. A taxonomy is provided for the

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Essentials of Engineering Thermodynamics Clement Kleinstreuer, 2021-03-10 Explore the theories applications and core concepts of thermodynamics This hands on guide lays out the critical thermodynamics concepts rules and governing equations for engineering students and professionals Developed by an experienced academic to reduce information overload in his classroom Essentials of Engineering Thermodynamics Principles and Applications reinforces each topic through concept questions and representative problems with detailed worked out solutions Figures and illustrations throughout tie each subject to the real world You will gain a clear understanding of the laws of thermodynamics that drive our understanding of energy systems and their daily applications Coverage includes Basic thermodynamics concepts Energy transfer modes The first law of thermodynamics Macroscale mass and energy balances Transient closed systems Steady open uniform flow devices The second law of thermodynamics The T s diagram and entropy calculations Exergy or minimizing energy waste Open and closed power cycles Reversed closed cycles

Fundamentals of Fluid Mechanics Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 1998 This students solutions manual accompanies the main text Each concept of fluid mechanics is considered in the book in simple circumstances before more complicated features are introduced The problems are presented in a mixture of SI and US standard units

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Medical subject headings **Monthly Weather Review** ,1995 Advanced Protocols for Animal Transgenesis Shirley Pease,Thomas L. Saunders,2011-08-30 This laboratory manual published in cooperation with the International Society for Transgenic Technology ISTT provides almost all current methods that can be applied to the creation and analysis of genetically modified animals The chapters have been contributed by leading scientists who are actively using the technology in their laboratories Based on their first hand experience the authors also provide helpful notes and troubleshooting sections Topics range from standard techniques such as pronuclear microinjection of DNA to more sophisticated and modern methods such as the derivation and establishment of embryonic stem ES cell lines with defined inhibitors in cell culture medium In addition related topics with relevance to the field are addressed including global web based resources legal issues colony management shipment of mice and embryos and the three R s refinement reduction and replacement

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