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Problem 2.2

Determine the gravitational potential energy, in kJ, of 2 m³ of liquid water at an elevation of 30 m above the surface of Earth. The acceleration of gravity is constant at 9.7 m/s² and the density of the water is uniform at 1000 kg/m³. Determine the change in gravitational potential energy as the elevation decreased by 15 m.

KNOWN: The elevation of a known quantity of water is decreased from a given initial value by a given amount.

FIND: Determine the initial gravitational potential energy and the change in gravitational potential energy.

SCHEMATIC AND GIVEN DATA:

ENGINERING MODEL:

 The water is a closed system. (2) The acceleration of gravity is constant. (3) The density of water is uniform.

ANALYSIS: The initial gravitational potential energy is

$$PE_1 = mgz_1 = (\rho V)gz_1$$

$$= \left(1000 \frac{\text{kg}}{\text{m}^3}\right) (2 \text{ m}^3) \left(9.7 \frac{\text{m}}{\text{s}^2}\right) (30 \text{ m}) \left| \frac{1 \text{ N}}{1 \text{ kg} \frac{\text{m}}{\text{s}^2}} \right| \left| \frac{1 \text{ kJ}}{10^3 \text{ N} \cdot \text{m}} \right|$$

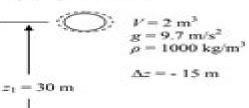
$$= 582 \text{ kJ} \quad \blacksquare$$

The change in potential energy is

$$\Delta PE = mg(z_2 - z_1) = mg\Delta z$$

$$= \left(1000 \frac{\text{kg}}{\text{m}^3}\right) \left(9.7 \frac{\text{m}}{\text{s}^2}\right) (-15 \text{ m}) \left| \frac{1 \text{ N}}{1 \text{ kg} \frac{\text{m}}{\text{s}^2}} \right| \left| \frac{1 \text{ kJ}}{10^3 \text{ N·m}} \right|$$

$$= -291 \text{ kJ} \quad \blacksquare$$



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N Noddings

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including chapter summaries and learning objectives end of chapter problems useful equations and design and open ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems Machinery, 1995 Upendra S. Rohatgi, A. Ogut, Hiroshi Hayami, 1995 FLUID MECHANICS RATHAKRISHNAN RATHAKRISHNAN, 2012-05-18 The third edition of this easy to understand text continues to provide students with a sound understanding of the fundamental concepts of various physical phenomena of science of fluid mechanics It adds a new chapter Vortex Theory which presents a vivid interpretation of vortex motions that are of fundamental importance in aerodynamics and in the performance of many other engineering devices It elaborately explains the dynamics of vortex motion with the help of Helmholtz s theorems and provides illustrations of how the manifestations of Helmholtz s theorems can be observed in daily life Several new problems along with answers are added at the end of Chapter 4 on Boundary Layer The book is suitable for a one semester course in fluid mechanics for undergraduate students of mechanical aerospace civil and chemical engineering students A Solutions Manual containing solutions to end of chapter problems is available for use by Introduction to Chemical Engineering Computing Bruce A. Finlayson, 2012-07-31 Step by step instructions instructors enable chemical engineers to master key software programs and solve complex problems Today both students and professionals in chemical engineering must solve increasingly complex problems dealing with refineries fuel cells microreactors and pharmaceutical plants to name a few With this book as their guide readers learn to solve these problems using their computers and Excel MATLAB Aspen Plus and COMSOL Multiphysics Moreover they learn how to check their solutions and validate their results to make sure they have solved the problems correctly Now in its Second Edition Introduction to Chemical Engineering Computing is based on the author's firsthand teaching experience As a result the emphasis is on problem solving Simple introductions help readers become conversant with each program and then tackle a broad range of problems in chemical engineering including Equations of state Chemical reaction equilibria Mass balances with recycle streams Thermodynamics and simulation of mass transfer equipment Process simulation Fluid flow in two and three dimensions All the chapters contain clear instructions figures and examples to guide readers through all the programs and types of chemical engineering problems Problems at the end of each chapter ranging from simple to difficult allow readers to gradually build their skills whether they solve the problems themselves or in teams In addition the book s accompanying website lists the core principles learned from each problem both from a chemical engineering and a computational perspective Covering a broad range of disciplines and problems within chemical engineering Introduction to Chemical Engineering Computing is recommended for both undergraduate and graduate students as well as practicing engineers who want to know how to choose the right computer software program and tackle almost any chemical engineering problem **Engineering Education**, 1975 Forthcoming Books Rose Arny, 2001 **Applied Mechanics Reviews** ,1948 **Books in Print Supplement** ,1994 Gibbs Energy and Helmholtz Energy Emmerich Wilhelm, Trevor

Letcher, 2021-09-08 This book contains the latest information on all aspects of the most important chemical thermodynamic properties of Gibbs energy and Helmholtz energy as related to fluids Both the Gibbs energy and Helmholtz energy are very important in the fields of thermodynamics and material properties as many other properties are obtained from the temperature or pressure dependence Bringing all the information into one authoritative survey the book is written by acknowledged world experts in their respective fields Each of the chapters will cover theory experimental methods and techniques and results for all types of liquids and vapours This book is the fourth in the series of Thermodynamic Properties related to liquids solutions and vapours edited by Emmerich Wilhelm and Trevor Letcher The previous books were Heat Capacities 2010 Volume Properties 2015 and Enthalpy 2017 This book fills the gap in fundamental thermodynamic properties and is the last in the series Books in Print ,1991 Termodinamika Rany Puspta Dewi, Penerbit Pustaka Rumah C1nta, Buku ini berisi tentang bagaimana Sistem Termodinamika itu dan menjelaskan bagaimana hukum hukumnya Dikemas dalam bahasa yang lebih mudah dipahami beserta dengan formula formula yang detail sehingga lebih mudah dalam pengaplikasian dalam pemahaman konsep dasar Termodinamika Buku ini terdiri dari 9 Bab materi yang terdiri dari 1 Pendahuluan 2 Sistem Termodinamika 3 Zat Murni dan Gas Ideal 4 Hukum Ke 1 Termodinamika 5 Massa dan Energi Analisis 6 Hukum Ke 2 Termodinamika dan Entropi 7 Sistem Tenaga dan Refrigerasi 8 Fungsi Termodinamika dan 9 Siklus Tenaga Gas Semua materi ini merupakan materi yang wajib dipelajari oleh mahasiswa selama satu semester untuk mencapai kompetensi pada Rencana Pembelajaran Semester Buku ini disusun untuk membantu mahasiswa dalam memahami dan mengkaji konsep dasar termodinamika Buku ini juga dapat digunakan sebagai acuan bagi dosen yang mengampu mata kuliah Termodinamika

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