

## Problem 2.2

Determine the gravitational potential energy, in kJ, of  $2 \text{ m}^3$  of liquid water at an elevation of 30 m above the surface of Earth. The acceleration of gravity is constant at  $9.7 \text{ m/s}^2$  and the density of the water is uniform at  $1000 \text{ kg/m}^3$ . 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:**

**ENGINEERING MODEL:**

(1) 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

$$\begin{aligned} PE_1 &= mgz_1 = (\rho V)gz_1 \\ &= \left(1000 \frac{\text{kg}}{\text{m}^3}\right)(2 \text{ m}^3)\left(9.7 \frac{\text{m}}{\text{s}^2}\right)(30 \text{ m}) \left| \frac{1 \text{ N}}{1 \text{ kg} \cdot \frac{\text{m}}{\text{s}^2}} \right| \left| \frac{1 \text{ kJ}}{10^3 \text{ N} \cdot \text{m}} \right| \\ &= 582 \text{ kJ} \quad \leftarrow \end{aligned}$$

The change in potential energy is

$$\begin{aligned} \Delta PE &= mg(z_2 - z_1) = mg\Delta z \\ &= \left(1000 \frac{\text{kg}}{\text{m}^3}\right)(2 \text{ m}^3)\left(9.7 \frac{\text{m}}{\text{s}^2}\right)(-15 \text{ m}) \left| \frac{1 \text{ N}}{1 \text{ kg} \cdot \frac{\text{m}}{\text{s}^2}} \right| \left| \frac{1 \text{ kJ}}{10^3 \text{ N} \cdot \text{m}} \right| \\ &= -291 \text{ kJ} \quad \leftarrow \end{aligned}$$



# Fundamentals Of Engineering Thermodynamics 8th Edition Solutions

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*Integrated Design and Simulation of Chemical Processes* Alexandre C. Dimian, Costin Sorin Bildea, Anton A. Kiss, 2014-09-18 This comprehensive work shows how to design and develop innovative optimal and sustainable chemical processes by applying the principles of process systems engineering leading to integrated sustainable processes with green attributes Generic systematic methods are employed supported by intensive use of computer simulation as a powerful tool for mastering the complexity of physical models New to the second edition are chapters on product design and batch processes with applications in specialty chemicals process intensification methods for designing compact equipment with high energetic efficiency plantwide control for managing the key factors affecting the plant dynamics and operation health safety and environment issues as well as sustainability analysis for achieving high environmental performance All chapters are completely rewritten or have been revised This new edition is suitable as teaching material for Chemical Process and Product Design courses for graduate MSc students being compatible with academic requirements world wide The inclusion of the newest design methods will be of great value to professional chemical engineers Systematic approach to developing innovative and sustainable chemical processes Presents generic principles of process simulation for analysis creation and assessment Emphasis on sustainable development for the future of process industries

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**Engineer in Training** Dilip K. Das,Rajaram K. Prabhudesai,2004 Annotation The PM exam for the FE is discipline specific Engineer in Training Chemical Review 2nd Ed prepares chemical engineers for this portion of the exam Students will want to buy Fundamentals of Engineering Examination Review for the AM portion of the exam     *Osmosis Engineering* Nidal Hilal,Ahmad Fauzi Ismail,Mohamed Khayet Souhaimi,Daniel Johnson,2021-04-23 Osmosis Engineering provides a comprehensive overview of the state of the art surrounding osmosis based research and industrial applications The book covers the underpinning theories technology developments and commercial applications Sections discuss innovative and advanced membranes and modules for osmosis separation processes e g reverse osmosis forward osmosis pressure retarded osmosis osmotic membrane distillation different application of these osmosis separation processes for energy and water separation such as the treatment of radioactive waste oily wastewater and heavy metal removal draw solutions pretreatment technologies fouling effects the use of renewable energy driven osmotic processes computational environmental and

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