

(1.6-3)

From Appendix A.4, $c_p = 4.02 \text{ kJ/kg} \cdot \text{K}$ at 32.8°C
Assume $c_{p,m} = 4.02$ Note: $(t-10)^\circ\text{C} = (t-10)\text{K}$

$$Q = 121\,300 \text{ kJ} = 454 \text{ kg} \left(4.02 \frac{\text{kJ}}{\text{kg} \cdot \text{K}} \right) (t - 10) \text{ K}$$

Solving, $(t-10) = 66.5 \text{ K} = 66.5^\circ\text{C}$ $t = 76.5^\circ\text{C}$

(1.6-4)

(a) A.3-9 $P = 30 \text{ psia}$ Liquid H_2O

$$\Delta H = H_{240^\circ\text{F}} - H_{40^\circ\text{F}} = 208.44 - 8.02 = \boxed{200.42 \text{ Btu/lb}_m}$$

(b) $P = 24.97 \text{ psia}$

$$H_{240^\circ\text{F}} (\text{vapor}) = 1160.7$$

$$H_{40^\circ\text{F}} (\text{liquid}) = 8.02$$

$$\Delta H = 1152.7 \text{ Btu/lb}_m$$

(c) $P = 1.0 \text{ atm abs}$

$$H_{212^\circ\text{F}} (\text{vapor}) = 1150.5$$

$$H_{40^\circ\text{F}} (\text{liquid}) = 28.1$$

$$\Delta H = -1122.4 \text{ Btu/lb}_m$$

(d) $P = 1.0 \text{ atm abs}$

$$H_{212^\circ\text{F}} (\text{vapor}) = 1150.5$$

$$H_{212^\circ\text{F}} (\text{liquid}) = 180.2$$

$$\Delta H = -970.3 \text{ Btu/lb}_m$$
$$(-2256.9 \text{ kJ/kg})$$

Geankoplis Absorption Solution Manual

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Transport Processes and Separation Process Principles Christie John Geankoplis, Allen Hersel, Daniel H. Lepek, 2018-05-02 The Complete Unified Up to Date Guide to Transport and Separation Fully Updated for Today's Methods and Software Tools Transport Processes and Separation Process Principles Fifth Edition offers a unified and up to date treatment of momentum heat and mass transfer and separations processes This edition reorganized and modularized for better readability and to align with modern chemical engineering curricula covers both fundamental principles and practical applications and is a key resource for chemical engineering students and professionals alike This edition provides New chapter objectives and summaries throughout Better linkages between coverage of heat and mass transfer More coverage of heat exchanger design New problems based on emerging topics such as biotechnology nanotechnology and green engineering New instructor resources additional homework problems exam questions problem solving videos computational projects and more Part 1 thoroughly covers the fundamental principles of transport phenomena organized into three sections fluid mechanics heat transfer and mass transfer Part 2 focuses on key separation processes including absorption stripping humidification filtration membrane separation gaseous membranes distillation liquid liquid extraction adsorption ion exchange crystallization and particle size reduction settling sedimentation centrifugation leaching evaporation and drying The authors conclude with convenient appendices on the properties of water compounds foods biological materials pipes tubes and screens The companion website trine.edu/transport5ed contains additional homework problems that incorporate today's leading software including Aspen CHEMCAD MATLAB COMSOL and Microsoft Excel *36th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit: 2000-3150 - 2000-3199*, 2000 *Separation Process Engineering* Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed

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