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3-1 Calculate the specific volume of an air-  
vapor mixture in cubic meters per  
kilogram of dry air when the following  
conditions prevail:  $t = 30\text{ C}$ ,  $W = 0.015$

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kg/kg, and  $p_t = 90 \text{ kPa}$ . Solution:

$$\text{Equation 3-4. } t_s = \frac{p_a}{p} \left( \frac{R T_p}{R T_s} \right)^{\frac{1}{\gamma}} = \frac{p_a}{p} \left( \frac{R T_p}{R T_s} \right)^{\frac{1}{1.4}}$$
$$= \frac{90}{101.325} \left( \frac{300}{300} \right)^{\frac{1}{1.4}} = 0.887$$

$$\text{J/kg.K } P_t = 90 \text{ kPa} = 90,000 \text{ Pa Equation 3-2}$$
$$t_s = \frac{p_a}{p} \left( \frac{R T_p}{R T_s} \right)^{\frac{1}{\gamma}} = \frac{90}{101.325} \left( \frac{300}{300} \right)^{\frac{1}{1.4}}$$
$$0.015 = 1.35 - 0.15 p_s$$

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Solution:  $q = mc_p (t_2 - t_1)$   $m = 2.5 \text{ kg/s}$   $c_p = 1.0 \text{ kJ/kg.K}$   $t_2 = 30 \text{ C}$   $t_1 = -10 \text{ C}$

CHAPTER 2 - THERMAL PRINCIPLES

Page 2 of 5 Then,  $q = (2.5) (1.0) (30 + 10)$

$q = 100 \text{ kw}$  - - - Ans. 2-3.

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Grasp Of The Subject. With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.

This textbook provides a concise, systematic treatment of essential theories and practical aspects of refrigeration and air-conditioning systems. It is designed for students pursuing courses in mechanical engineering both at diploma and degree level with a view to equipping them with a fundamental background necessary to understand the latest methodologies used for the design of refrigeration and air-conditioning systems. After reviewing the physical principles, the text focuses on the refrigeration cycles commonly used in air-conditioning applications in tropical

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climates. The subject of psychrometry for analysing the various thermodynamic processes in air conditioning is particularly dealt with in considerable detail. The practical design problems require comprehensive use of tables and charts prepared by the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). This text incorporates such tables and charts so that the students are exposed to solving real-life design problems with the help of ASHRAE Tables. Finally, the book highlights the features, characteristics and selection criteria of hardware including the control equipment. It also provides the readers with the big picture in respect of the latest developments such as thermal storage air conditioning, desiccant cooling, chilled ceiling cooling, Indoor Air Quality (IAQ) and thermal comfort. Besides the students, the book would be immensely

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