

## Heat Exchanger Question Answer

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### Heat Exchanger Question Answer

This set of Heat Transfer Multiple Choice Questions & Answers (MCQs) focuses on "Classification of Heat Exchanger". 1. Some examples of heat exchanger are (i) Condensers and evaporators in refrigeration units (ii) Evaporator of an ice plant and milk chiller of a pasteurizing plant (iii) Automobile radiators and oil coolers of heat engines

### Heat Exchanger Classification Questions and Answers ...

A single pass shell and tube heat exchanger, consisting of a bundle of 100 tubes (inner diameter 25 mm and thickness 2 mm) is used for heating 28 kg/s of water from 25 degree Celsius to 75 degree Celsius with the help of a steam condensing at atmospheric pressure on the shell side with condensing heat transfer coefficient 5000 W/m<sup>2</sup> degree.

### Heat Exchanger Effectiveness Questions and Answers ...

A heat exchanger is a component that allows the transfer of heat from one fluid (liquid or gas) to another fluid. Reasons for heat transfer include the following: 1. To heat a cooler fluid by means of a hotter fluid

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Question 20 : Air is to be heated by condensing steam. Two heat exchangers are available (i) a shell and tube heat exchanger and (ii) a finned tube heat exchanger. Tube side heat transfer area are equal in both the cases. The recommended arrangement is

### Heat Transfer Questions and Answers - QforQuestions

The solved questions answers in this Heat Exchanger - 1 quiz give you a good mix of easy questions and tough questions. Mechanical Engineering students definitely take this Heat Exchanger - 1 exercise for a better result in the exam. You can find other Heat Exchanger - 1 extra questions, long questions & short questions for Mechanical ...

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### 32 Heat Exchanger Design, Inc. Interview Questions

Heat exchanger are found in refrigerators, water boilers and a wide range of appliances. Read below where Experts have given answers to heat exchanger questions. A check with a carbon monoxide detector found that there is a leak from the seam at the top of the heat exchanger on my Rheem 1603-25 gravity floor furnace. Is it safe to weld it closed?

### Heat Exchanger Problems - Questions On Heat Exchanger ...

A heat exchanger is a device used to transfer thermal energy from one fluid to another, without any direct contact between or mixing of these fluids. What does heat recovery involve?

### Heat exchanger thermal exchange : frequently asked questions

8. A double-pipe heat exchanger consists of two concentric fluid-carrying pipes used to transfer heat between non-mixing fluids. The figure shown below is a full-section view of 85 cm length of the double-pipe apparatus. (25 points) Water 11 cm SAE 30 7.5 cm LE Water 85 cm SAE 30 oil at 100 °C flows through the 7.5 cm outer-diameter inside pipe.

### Solved: 8. A Double-pipe Heat Exchanger Consists Of Two Co ...

Home » HEAT TRANSFER Questions » 300+ TOP HEAT TRANSFER Multiple Choice Questions and Answers. 300+ TOP HEAT TRANSFER Multiple Choice Questions and Answers. Heat Transfer Objective Questions :- MCQs. 1. Unit of thermal conductivity in M.K.S. units is (a) kcal/kg m<sup>2</sup> °C (b) kcal-m/hr m<sup>2</sup> °C (c) kcal/hr m<sup>2</sup> °C

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Heat Exchangers - MCQs with Answers 1. Which of the following is/are example/s of heat exchanger? a. Feed water heater in which a stream of steam is directly mixed with cold water and the mixture leaves at uniform temperature b. Feed water heater in which a stream of steam and cold water are not mixed and separated by partition through which ...

### Heat Exchangers - MCQs with Answers

Heat exchanger The heat exchanger above has 10 kg/min of air entering at (803 K, 2 bar) at state 1 and leaving with a temperature of 600 K and a pressure of 1.98 bar (state 2). The air from state 1...

### Solved: Heat exchanger | Study.com

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### Heat Transfer Questions and Answers | Study.com

Chemical EngineeringQ&A LibraryA counter-flow heat exchanger is stated to have an overall heat transfer coefficient of 284 W/m<sup>2</sup>·K when operating at design and clean conditions. Hot fluid enters the tube side at 93°C and exits at 71°C, while cold fluid enters the shell side at 27°C and exits at 38°C.

### Answered: A counter-flow heat exchanger is stated... | bartleby

The Hot Stream... Question: A Concentric Tube Heat Exchanger Is Built And Operated As Shown In Figure 1. The Hot Stream Is A Heat Transfer Fluid With Specific Heat Capacity = 2.5 KJ/kg.K. The Hot Stream Enters At The Center Of The Annulus At = 110C With Mass Flow Rate 0.64 Kg/s And Then Splits And An Equal Amount Flows In Both Directions.

### Solved: A Concentric Tube Heat Exchanger Is Built And Oper ...

A designer chooses the values of fluid flow rates and specific heats in such a manner that the heat capacities of the two fluids are equal. A hot fluid enters the counter flow heat exchanger at 100°C and leaves at 60°C. A cold fluid enters the heat exchanger at 40°C. The mean temperature difference between the two fluids is (A) 20°C (B) 40°C

### Heat and Mass Transfer Objective Questions with Answers ...

Heat Exchangers 73 individual thermal resistances of the system. Combining each of these resistances in series gives:  $\frac{1}{UA} = \frac{1}{(\eta_o h_o A_o)} + \frac{1}{S k_w} + \frac{1}{(\eta_i h_i A_i)}$  (5.7) where  $\eta_o$  is the surface efficiency of inner and outer surfaces,  $h$  is the heat transfer coefficients for the inner and outer surfaces, and  $S$  is a shape factor for the wall

### Chapter 5 Heat Exchangers

Answer : In direct contact heat exchanger, the heat exchange takes place by direct mixing of hot and cold fluids. Thermal Power Plant Interview Questions ; Question 18. What Is Meant By Indirect Contact Heat Exchanger? Answer : In this type of heat exchangers, the transfer of heat between two fluids could be carried out by transmission through ...

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