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ME 335 (HEAT  
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Department of  
Mechanical  
Engineering, University  
of Michigan PROBLEM 1  
(30%) GIVEN: The  
exposed human leg, in  
standing position,  
losses heat by surface  
convection  
(thermobuoyant flow)  
and surface radiation.  
Model the leg as a  
uniform-temperature  
cylinder of diameter  $D$   
and length  $L$ , Figure

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**TRANSFER), FALL  
2007, FINAL EXAM,  
SOLUTION ...**

Click here for Past  
Mass Transfer Exams  
Example of multiple  
choice questions on a  
quiz. Mouse over the  
choice a, b, c, or d to  
check your answer. A.  
There is no mechanism  
for energy transfer by  
molecular interactions  
in convection. B. Heat  
is energy in transit  
solely as a result of a  
temperature

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difference.

**CHE 312 Heat  
Transfer - California  
State Polytechnic ...**

ME 335 (HEAT  
TRANSFER), FALL 2005,  
Final Exam, SOLUTION

Department of  
Mechanical

Engineering, University  
of Michigan PROBLEM 1  
(25%) GIVEN: In a solidifi-  
cation process, a molten  
acrylic at temperature  $T(t=0)$   
is poured into a cold  
mold, as shown

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## **ME 335 (HEAT TRANSFER), FALL 2005, Final Exam, SOLUTION**

ChE210S (2018) Heat and Mass Transfer Final Exam [Problem 4, continued] 4(b) [10 Marks] A gas X flows over a flat plate of length 0.1 m along the direction of flow. The boundary layer remains laminar along the entire plate, and the average heat





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Çengel, Heat Transfer

17 Overall Fin

Effectiveness • Original

area,  $A = (\text{area with$

fins,  $A_{\text{fin}}) + (\text{area$

without fins,  $A_{\text{unfin}})$  (

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MAE 423: Heat and Mass Transfer. Spring

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Midterm 2 Solutions.  
Midterm Exam 3 Key.

## **Exams - Heat Transfer Course**

Solution For equation 1  
all of the variables are  
either constant or the  
product of a constant  
and the first power of a  
variable. In equation 2  
there is the natural log  
for finding out the  
area. of the cylinder  
When either radius of  
the cylinder changes

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the resulting heat transfer changes logarithmically. The correct choice is B

## **Heat Transfer Archives - PE Exam Questions**

To Heat Transfer (ME 411) Final Exam July 29, 2005 Name: (1 Hour) Solve only two problems. If solutions involve an iterative process multiple iterations are not necessary. Problem 1

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(Conduction): An aluminum saucepan has a handle that is riveted to its wall. The handle itself is made of cast aluminum ( $k=164$  w/mK) and is to have attached a ...

## **Int. To Heat Transfer (ME 411) Final Exam July 29, 2005 ...**

ME 323 Sample Final Exam. 120pts total True/False. Circle the correct answer. (1pt each, 7pts total) 1. A



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solid angle of  $2\pi$  steradians defines a hemispherical shell. T F  
2. The Earth irradiates the Sun. T F  
3. Radiation doesn't occur in materials that are transparent such as gases. T F  
4.

## **Final Exam Sample - Portland State University**

Heat and Mass Transfer  
Exam I Chapter 3: 1-D  
Steady-State  
Conduction and

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- Extended Surfaces
- Steady-state, 1-dimensional solution to the heat equation with no generation
- Extended surfaces (fins) enhance heat transfer by exposing more surface area to convective heat transfer -

## **Heat and Mass Transfer Exam I - Iowa State University**

Heat Transfer Exam  
*Page 18/27*

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Heat Transfer  
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Mechatronics  
Engineering University  
of Waterloo Spring  
2016 Midterm Exams:  
Spring '04: Exam:  
Solution: Spring '16:  
Exam: Solution: Final  
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## **Sample Exams and Midterms - Microelectronics Heat Transfer ...**

The exam tests candidate's understanding of thermodynamics (laws & cycles) and heat transfer (applications and analysis). Format: 3-hour long, open book exam. Out of the eight questions that are asked in the exam, only five need to be

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attempted; 2 from part A and 3 from part B, or vice versa.

## **Applied Thermodynamics & Heat Transfer (Mec- A1) - Solutions**

OPEN BOOK FINAL  
EXAMS (SOLUTIONS)

Problem 1 (35%) -  
Containment Heat  
Transfer and Structural  
Mechanics . i) Heat  
rejection from the  
containment can be  
viewed as the series of

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three heat transfer  
processes:  $Q_{in} = m c_p (T_{ci} - T_{co})$

(condensation on the  
inner shell)  $Q_{cond} = \frac{k A (T_{ci} - T_{co})}{t}$

(conduction through  
the shell)  $Q_{cond} = \frac{k A (T_{ci} - T_{co})}{t}$

## **22.312 ENGINEERING OF NUCLEAR REACTORS Tuesday, December**

...

heat transfer from the  
high temperature heat  
reservoir is  $Q_{in} = m c_p (T_{ci} - T_{co})$

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transfer in the  
polytropic process  
Solution: (V  
disp)cylinder = V disp  
/6 =  $4 \times 10^{-4} \text{ m}^3$  ( )  
BDC ... 22.312  
ENGINEERING OF  
NUCLEAR REACTORS  
Tuesday, ...

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## **Transfer - TU Delft OCW**

A complete solutions manual is available to qualified instructors. Heat and Mass Transfer Exam I Chapter 3: 1-D Steady-State Conduction and Extended Surfaces • Steady-state, 1-dimensional solution to the heat equation with no generation • Extended surfaces (fins) enhance heat transfer by exposing

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more surface area to  
convective heat...

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