

Code No: 126VF

R15

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, April - 2018

HEAT TRANSFER

(Common to AME, MSNT, ME)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

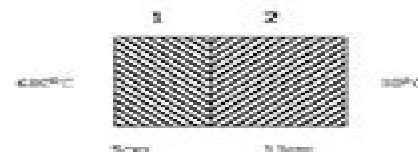
(25 Marks)

1. a) What do you mean by steady state heat transfer. [2]
- b) What are the initial and boundary conditions for conduction of heat transfer? [3]
- c) What is heat generation in a solid? Give examples. [2]
- d) What is lumped heat capacity method? Explain. [3]
- e) Draw boundary layer over a flat plate in moving fluid and mark various salient points. [2]
- f) What is the significance of non-dimensional numbers? [3]
- g) Define critical heat flux. [2]
- h) Define Stefan Boltzmann constant. [3]
- i) What is LMTD correction factor? [2]
- j) List out the applications of heat exchangers. [3]

PART - B

(50 Marks)

2. Find the steady state heat flux through the infinite composite slab made up of two materials. Also find the interface temperature T_i . The thermal conductivities of the two materials vary linearly with temperature as [10]
 $k_1 = 0.05 (1 + 0.008T)$ W/mK
 $k_2 = 0.04 (1 + 0.075T)$ W/mK
Where T is $^{\circ}\text{C}$



OR

3. A furnace wall is built up of two layers laid of fireclay 12cm thick and red brick 25 cm thick while the annular space between the two is filled with diatomite brick (15cm). What should be the thickness of the red brick layer if the wall is to be constructed without diatomite brick, so that the heat flow through the wall remains constant? The thermal conductivities of fireclay, diatomite and red brick being 0.929, 0.129 and 0.699 W/m $^{\circ}\text{C}$ respectively. [10]

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Raffaela Di Napoli



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Applied Mechanics Reviews ,1989 **Power** ,1927 **The Chemical Engineer** ,1986 **Indian Science Abstracts** ,1995 **Physics Briefs** ,1994 **Meteorological and Geoastrophysical Abstracts** ,1992 **Advanced Materials & Processes** ,2001 **Bibliographic Guide to Conference Publications** New York Public Library. Research Libraries,1991 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes **Who's Who in Science and Engineering 2008-2009** Who's Who Marquis,Marquis Who's Who,2007-12 **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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Heat Transfer Notes Llewellyn Michael Kraus Boelter,1948 **Papers Intended of the General Discussion on Heat Transfer. Sect. II. Heat Transfer Between Fluids and Surfaces** ,1951 **Heat Transfer Notes** Llewellyn Michael Kraus Boelter,1948 **Heat Transfer** William Woodside,1959 **Heat and Mass Transfer** Mohan, The First edition of HEAT AND MASS TRANSFER has been published to serve undergraduate students concerning with this extremely important domain of engineering science The book is written to gradually build up the concepts and inculcate mathematical abilities in students to solve real life problems in Heat and Mass Transfer analysis Book has been designed to make it student friendly interesting and engaging with special focus to provide a meaningful correct and lucid explanation of the underlying concepts Features Building up stepwise concepts with proper interlinking and apt illustrations Exhaustive and In depth

coverage of subject Plethora of Solved Examples Multiple Choice Questions and Review Questions Coverage of Competitive and University Exam questions Table of Contents Chapter 1 Introduction to Heat Transfer Chapter 2 Fundamentals of Conduction and Governing Equations Chapter 3 Unsteady State Conduction Chapter 4 Numerical Approach for Solving Heat Conduction Problems Chapter 5 Heat Transfer from Extended Surfaces Chapter 6 Fundamentals of Convection Chapter 7 Heat Transfer by Forced Convection Chapter 8 Heat Transfer by Free Convection Chapter 9 Boiling and Condensation Chapter 10 Heat Exchangers Chapter 11 Mass Transfer Chapter 12 Thermal Radiations Process and Properties Chapter 13 Radiation Heat Exchange Between Surfaces **Heat Transfer** ,1991 **A Textbook Of Heat Transfer** Suhas P. Sukhatme,1996-01-01 *Heat Transfer* Open University. T333 Course Team,1993

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