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NPTEL

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Courses » Energy Efficiency, Acoustics and daylighting in Building

Announcements **Course** Ask a Question Progress FAQ

Unit 5 - Heat Transfer Concepts in Buildings - 2

Register for
Certification exam

Course outline

How to access
the portal

Introduction

Environmental
factors and
climatic zones

Heat Transfer
Concepts in
Buildings

Heat Transfer
Concepts in
Buildings - 2

mod04lec14

mod04lec15

mod04lec16

mod04lec17

PDF of
Lectures (Week
3 (remaining) &
Week 4)

Quiz :
Assignment 4

Solution of
assignment 4

Thermal Comfort

Assignment 4

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-02-27, 23:59 IST.**

Note : In Numeric type questions, kindly please enter the numeric value only upto 2 decimal places. Do Not enter units or some other expression as this might evaluate the answer as wrong. eg: if answer is '45.60' then '45.60 degrees' as an answer would be taken as wrong by the computer.

1) Ratio of cyclic flux transmission to the steady state flux transmission is termed as: **2 points**

- Surface response factor
- Admittance factor
- Decrement response factor
- None

No, the answer is incorrect.

Score: 0

Accepted Answers:

Decrement response factor

2) If the given transmission matrix for a wall is $\begin{bmatrix} A & C \\ B & D \end{bmatrix}$. What is the admittance response factor for the wall? **2 points**

- D/C
- D/B
- 1/B
- 1/C

No, the answer is incorrect.

Score: 0

Accepted Answers:

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In association with

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Funded by

Acoustics and Noise

Sound Transmission

Noise Control

Fundamentals of Daylighting

Daylighting Design

Interaction Session

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 0.5,0.6

8 points

4) Mean typical summer day internal temperature inside a room is 32.5 degree Celsius. The corresponding peak internal temperature transient heat gain over mean, through external walls, glasses and roof are 850 W, 500 W and 1250 W respectively. The swing in casual heat gain is 200 W. The constant air change per hour in the room is 6. The areas of the elements and their admittance values are given in the table below. Calculate temperature within the room. The room height is 3.5 m.

Element	Area (m ²)	Admittance (W/m ² C)
External walls	10	5.5
Ceiling	20	5.7
Floor	20	4.0
Window glass	7.5	5
Internal walls	45.5	3.2

No, the answer is incorrect.

Score: 0

Accepted Answers:

(Type: Range) 37,38

8 points

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