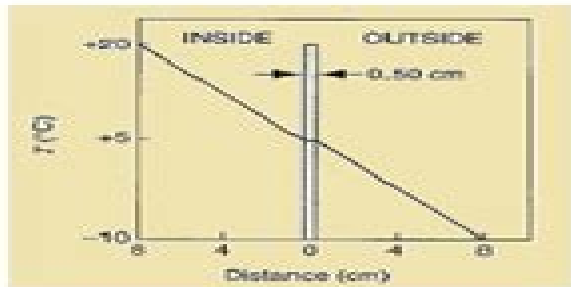


## Solved Examples on Heat Transfer:-

### Question 1:-

An idealized representation of the air temperature as a function of distance from a single-pane window on a calm, winter day is shown in below figure. The window dimensions are 60 cm × 60 cm × 0.50 cm. (a) At what rate does heat flow out through the window? (Hint: The temperature drop across the glass is very small.) (b) Estimate the difference in temperature between the inner and outer glass surfaces.



### Concept:-

The rate  $H$  at which heat is transferred through the slab is,

- (a) directly proportional to the area ( $A$ ) available.
- (b) inversely proportional to the thickness of the slab  $\Delta x$ .
- (c) directly proportional to the temperature difference  $\Delta T$ .

$$\text{So, } H = kA \Delta T / \Delta x$$

Here,  $k$  is the proportionality constant and is called thermal conductivity of the material.

From the equation  $H = kA \Delta T / \Delta x$ , the temperature difference  $\Delta T$  will be,

$$\Delta T = H \Delta x / kA$$

The temperature gradient is defined as,

$$\text{Temperature gradient} = \Delta T / \Delta x$$

### Solution:-

(a) To find out the rate of heat flows out through the window, first we have to find out the temperature gradient both inside and outside the window.

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Heat Transfer Tien-Mo Shih, 2016-12-31      **Heat Transfer** Tien-Mo Shih, 2012 Heat Transfer Lessons with Examples Solved by Matlab instructs students in heat transfer and cultivates independent and logical thinking ability The book focuses on fundamental concepts in heat transfer and can be used in courses in Heat Transfer Heat and Mass Transfer and Transport Processes It uses numerical examples and equation solving to clarify complex abstract concepts such as Kirchhoff's Law in Radiation Several features characterize this textbook It includes real world examples encountered in daily life Examples are mostly solved in simple Matlab codes readily for students to run numerical experiments by cutting and pasting Matlab codes into their PCs In parallel to Matlab codes some examples are solved at only a few nodes allowing students to understand the physics qualitatively without running Matlab codes It places emphasis on why for engineers not just how for technicians Heat Transfer is an ideal text for students of mechanical chemical and aerospace engineering It can also be used in programs for civil and electrical engineering and physics Rather than simply training students to be technicians Heat Transfer uses clear examples structured exercises and application activities that train students to be engineers The book encourages independent and logical thinking and gives students the skills needed to master complex technical subject matter

Introduction to Finite Element Analysis for Engineers Saad A. Ragab, Hassan E. Fayed, 2018-04-17 Finite Element Analysis for Engineers introduces FEA as a technique for solving differential equations and for application to problems in Civil Mechanical Aerospace and Biomedical Engineering and Engineering Science Mechanics Intended primarily for senior and first year graduate students the text is mathematically rigorous but in line with students math courses Organized around classes of differential equations the text includes MATLAB code for selected examples and problems Both solid mechanics and thermal fluid problems are considered Based on the first author's class tested notes the text builds a solid understanding of FEA concepts and modern engineering applications      Mathematical Modelling Courses for Engineering Education Yasar Ersoy, Alfredo O. Moscardini, 2013-06-29 As the role of the modern engineer is markedly different from that of even a decade ago the theme of engineering mathematics education EME is an important one The need for mathematical modelling MM courses and consideration of the educational impact of computer based technology environments merit special attention This book contains the proceeding of the NATO Advanced Research Workshop held on this theme in July 1993 We have left the industrial age behind and have entered the information age Computers and other emerging technologies are penetrating society in depth and gaining a strong influence in determining how in future society will be organised while the rapid change of information requires a more qualified work force This work force is vital to high technology and economic competitiveness in many industrialised countries throughout the world Within this framework the quality of EME has become an issue It is expected that the content of mathematics courses taught in schools of engineering today have to be re-evaluated continuously with regard to computer based technology and the needs of modern information society The main aim of the

workshop was to provide a forum for discussion between mathematicians engineering scientists mathematics educationalists and courseware developers in the higher education sector and to focus on the issues and problems of the design of more relevant and appropriate MM courses for engineering education

**Applied Electromagnetics Using QuickField and MATLAB** James R. Claycomb, 2010 Intended As A Textbook For Electromagnetics Or A Reference For Practicing Engineers The Book Uses The Computer Software Packages Quickfield And MATLAB For Visualizing Electric And Magnetic Fields And For Calculating Their Resulting Forces Charge And Current Distributions The Concepts Of Electromagnetism Come Alive As The Readers Model Real World Problems And Experiment With Currents In Biological Tissue Under Electrical Stimulation For Superconducting Magnetic Shielding Monte Carlo Methods Etc The Accompanying CD Includes A Fully Functional Version Of Quickfield Widely Used In Industry As Well As Numerous Demonstrations And Simulations With MATLAB

**The Finite Element Method in Engineering** Singiresu S. Rao, 2017-10-31 The Finite Element Method in Engineering Sixth Edition provides a thorough grounding in the mathematical principles behind the Finite Element Analysis technique an analytical engineering tool originated in the 1960 s by the aerospace and nuclear power industries to find usable approximate solutions to problems with many complex variables Rao shows how to set up finite element solutions in civil mechanical and aerospace engineering applications The new edition features updated real world examples from MATLAB Ansys and Abaqus and a new chapter on additional FEM topics including extended FEM X FEM Professional engineers will benefit from the introduction to the many useful applications of finite element analysis Includes revised and updated chapters on MATLAB Ansys and Abaqus Offers a new chapter Additional Topics in Finite Element Method Includes discussion of practical considerations errors and pitfalls in FEM singularity elements Features a brief presentation of recent developments in FEM including extended FEM X FEM augmented FEM A FEM and partition of unity FEM POUFEM Features improved pedagogy including the addition of more design oriented and practical examples and problems Covers real life applications sample review questions at the end of most chapters and updated references

**Finite Elements for Engineers with ANSYS Applications** Mohamed Gadala, 2020-07-09 Covering theory and practical industry usage of the finite element method this highly illustrated step by step approach thoroughly introduces methods using ANSYS

*Finite Element Method for Solids and Structures* Sung W. Lee, Peter W. Chung, 2021-06-17 This innovative approach to teaching the finite element method blends theoretical textbook based learning with practical application using online and video resources This hybrid teaching package features computational software such as MATLAB and tutorials presenting software applications such as PTC Creo Parametric ANSYS APDL ANSYS Workbench and SolidWorks complete with detailed annotations and instructions so students can confidently develop hands on experience Suitable for senior undergraduate and graduate level classes students will transition seamlessly between mathematical models and practical commercial software problems empowering them to advance from basic differential equations to industry standard modelling and analysis Complete with over 120 end of

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This book demonstrates the view that Information and Communication Technologies should not be considered as a neutral teaching medium but instead be implemented under pedagogical conditions aiming at the development of critical thinking through their creative integration into the social and cultural context

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