

CHAPTER 2 Unit 2

Overall Heat Transfer Coefficient and Insulation

Syllabus :

Thermal contact resistance, Critical radius of insulation, Electrical analogy, overall heat transfer coefficient, Heat Sources systems, Variable thermal conductivity.

Syllabus Topic : Variable Thermal Conductivity

2.1 Heat Conduction in Thick Wall with Variable Thermal Conductivity

The dependence of thermal conductivity on temperature can be expressed as :

$$k = k_0 (1 + \alpha \cdot T)$$

Where k_0 is the thermal conductivity at reference temperature, α is constant for a given material and T is the temperature.

Fouriers law of heat conduction through a thick is expressed as :

$$Q = -kA \cdot \frac{dT}{dx} = -k_0 (1 + \alpha \cdot T) A \frac{dT}{dx}$$

$$\therefore \frac{Q}{A} \cdot dx = k_0 (1 + \alpha \cdot T) \cdot dT \quad \dots(i)$$

Integrating the above equation with boundary conditions at $x = 0$, $T = T_1$ and at $x = x$, $T = T_2$.

$$\frac{Q}{A} \int_0^x dx = - \int_{T_1}^{T_2} k_0 (1 + \alpha T) \cdot dT$$

$$\frac{Q}{A} [x]_0^x = -k_0 \left[T + \frac{\alpha}{2} T^2 \right]_{T_1}^{T_2}$$

$$\frac{Q}{A} (x - 0) = -k_0 \left[(T_2 - T_1) + \frac{\alpha}{2} (T_2^2 - T_1^2) \right]$$

$$= k_0 \left[(T_1 - T_2) + \frac{\alpha}{2} (T_2 - T_1) (T_1 + T_2) \right]$$

$$\frac{Q}{A} \cdot x = +k_0 (T_1 - T_2) \left[1 + \frac{\alpha}{2} (T_1 + T_2) \right] \dots(2.1.1)$$

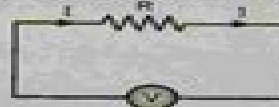
$$Q = \frac{k_m \cdot A (T_1 - T_2)}{x} \quad \dots(2.1.2)$$

Where $k_m = k_0 \left[1 + \frac{\alpha}{2} (T_1 + T_2) \right]$ represents the mean value of thermal conductivity calculated at mean temperature of $T = \left(\frac{T_1 + T_2}{2} \right)$

Electrical Analogy

2.2 Analogy between Heat Conduction and Electricity

Rate of heat flow has an analogy with current flow in an electrical system having the electrical resistance R with potential difference V as shown in Fig. 2.2.1.



(a) Heat conduction



(b) Electrical system

Fig. 2.2.1 : Analogy between electrical conduction and heat conduction system

From ohm's law for electrical system we can write,

$$\therefore \text{Current flow, } I = \frac{V}{R} \quad \dots(2.2.1)$$

For heat conduction system,

$$Q = \frac{k \cdot A (T_1 - T_2)}{x} = \frac{(T_1 - T_2)}{\left(\frac{x}{kA} \right)} = \frac{\Delta T}{R} \quad \dots(2.2.2)$$

By comparing Equations (2.2.1) and (2.2.2) we draw the following analogy between electricity and heat flow.

- Temperature difference $(T_1 - T_2)$ across the wall represents the driving force equivalent to potential difference, V .
- Heat flow rate Q corresponds to current flow I .

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Heat Transfer in Process Engineering Eduardo Cao, 2009-08-12 Cutting edge heat transfer principles and design applications Apply advanced heat transfer concepts to your chemical petrochemical and refining equipment designs using the detailed information contained in this comprehensive volume Filled with valuable graphs tables and charts Heat Transfer in Process Engineering covers the latest analytical and empirical methods for use with current industry software Select heat transfer equipment make better use of design software calculate heat transfer coefficients troubleshoot your heat transfer process and comply with design and construction standards Heat Transfer in Process Engineering allows you to Review heat transfer principles with a direct focus on process equipment design Design rate and specify shell and tube plate and hairpin heat exchangers Design rate and specify air coolers with plain or finned tubes Design rate and specify different types of condensers with tube or shellside condensation for pure fluids or multicomponent mixtures Understand the principles and correlations of boiling heat transfer with their limits on and applications to different types of reboiler design Apply correlations for fired heater ratings for radiant and convective zones and calculate fuel efficiency Obtain a set of useful Excel worksheets for process heat transfer calculations

Engineering Heat Transfer Bhalchandra V. Karlekar, Robert M. Desmond, 1977 *Principles of Heat Transfer* Frank Kreith, Mark Bohn, 2001 Frank Kreith and Mark Bohn's PRINCIPLES OF HEAT TRANSFER is known and respected as a classic in the field The sixth edition has new homework problems and the authors have added new Mathcad problems that show readers how to use computational software to solve heat transfer problems This new edition features its own web site that features real heat transfer problems from the industry as well as actual case studies

Engineering Heat Transfer M. M. Rathore, R. Kapuno, 2010-06-30 Intended as a textbook for undergraduate courses in heat transfer for students of mechanical chemical aeronautical and metallurgical engineering or as a reference for professionals in industry this book emphasizes the clear understanding of theoretical concepts followed by practical applications Treating each subject analytically and then numerically it provides step by step solutions of numerical problems through the use of systematic procedures by a prescribed format With more than a million users in industry MATLAB is the most popular computing programming language among engineers This Second Edition has been updated to include discussions on how to develop programs that solve heat transfer problems using MATLAB which allows the student to rapidly develop programs that involve complex numerical and engineering heat transfer computations

Engineering Heat Transfer William S. Janna, 2018-10-03 Most heat transfer texts include the same material conduction convection and radiation How the material is presented how well the author writes the explanatory and descriptive material and the number and quality of practice problems is what makes the difference Even more important however is how students receive the text Engineering Heat Transfer Third Edition provides a solid foundation in the principles of heat transfer while strongly emphasizing practical applications and keeping mathematics to a minimum New in the Third Edition Coverage of the

emerging areas of microscale nanoscale and biomedical heat transfer Simplification of derivations of Navier Stokes in fluid mechanics Moved boundary flow layer problems to the flow past immersed bodies chapter Revised and additional problems revised and new examples PDF files of the Solutions Manual available on a chapter by chapter basis The text covers practical applications in a way that de emphasizes mathematical techniques but preserves physical interpretation of heat transfer fundamentals and modeling of heat transfer phenomena For example in the analysis of fins actual finned cylinders were cut apart fin dimensions were measures and presented for analysis in example problems and in practice problems The chapter introducing convection heat transfer describes and presents the traditional coffee pot problem practice problems The chapter on convection heat transfer in a closed conduit gives equations to model the flow inside an internally finned duct The end of chapter problems proceed from short and simple confidence builders to difficult and lengthy problems that exercise hard core problems solving ability Now in its third edition this text continues to fulfill the author s original goal to write a readable user friendly text that provides practical examples without overwhelming the student Using drawings sketches and graphs this textbook does just that PDF files of the Solutions Manual are available upon qualifying course adoptions

Engineering Heat Transfer J.R. Simonson,1988-07-28 This undergraduate text incorporates extensive updating and modification whilst continuing to present heat transfer in the form in which it is usually taught in Engineering degree courses After introducing the three basic heat transfer processes the book covers each in turn in greater depth **Heat Transfer Engineering**,2009 **Engineering Flow and Heat Exchange** Octave Levenspiel,2013-11-11 Professor Levenspiel s text remains the most practical volume available on the design of heat transfer equipment an excellent introduction to real world applications for advanced undergraduates and an indispensable reference for professionals Each chapter includes illustrative examples and problems *Heat Transfer Engineering* Hilbert Schenck (Jr.),1960 **Engineering Heat Transfer** John R. Simonson,1975 Previous edition published as An introduction to engineering heat transfer *Engineering Heat Transfer* M. M. Rathore,R. Kapuno,2010-06-30 Intended as a textbook for undergraduate courses in heat transfer for students of mechanical chemical aeronautical and metallurgical engineering or as a reference for professionals in industry this book emphasizes the clear understanding of theoretical concepts followed by practical applications Treating each subject analytically and then numerically it provides step by step solutions of numerical problems through the use of systematic procedures by a prescribed format With more than a million users in industry MATLAB is the most popular computing programming language among engineers This Second Edition has been updated to include discussions on how to develop programs that solve heat transfer problems using MATLAB which allows the student to rapidly develop programs that involve complex numerical and engineering heat transfer computations *Heat Transfer Engineering* Hilbert van Nydeck Schenck,1960 *Heat Transfer Engineering* ,1988 **Introduction to Engineering Heat Transfer** G. F. Nellis,S. A. Klein,2020-07-30 Equips students with the essential knowledge skills and confidence to solve real world heat transfer

problems using EES MATLAB and FEHT **Advances in Heat Transfer and Thermal Engineering** Chuang Wen, Yuying Yan, 2021-06-01 This book gathers selected papers from the 16th UK Heat Transfer Conference UKHTC2019 which is organised every two years under the aegis of the UK National Heat Transfer Committee It is the premier forum in the UK for the local and international heat transfer community to meet disseminate ongoing work and discuss the latest advances in the heat transfer field Given the range of topics discussed these proceedings offer a valuable asset for engineering researchers and postgraduate students alike INTRODUCTION TO HEAT TRANSFER S. K. SOM, 2008-10-24 This book presents a comprehensive treatment of the essential fundamentals of the topics that should be taught as the first level course in Heat Transfer to the students of engineering disciplines The book is designed to stimulate student learning through clear concise language The theoretical content is well balanced with the problem solving methodology necessary for developing an orderly approach to solving a variety of engineering problems The book provides adequate mathematical rigour to help students achieve a sound understanding of the physical processes involved Key Features A well balanced coverage between analytical treatments physical concepts and practical demonstrations Analytical descriptions of theories pertaining to different modes of heat transfer by the application of conservation equations to control volume and also by the application of conservation equations in differential form like continuity equation Navier Stokes equations and energy equation A short description of convective heat transfer based on physical understanding and practical applications without going into mathematical analyses Chapter 5 A comprehensive description of the principles of convective heat transfer based on mathematical foundation of fluid mechanics with generalized analytical treatments Chapters 6 7 and 8 A separate chapter describing the basic mechanisms and principles of mass transfer showing the development of mathematical formulations and finding the solution of simple mass transfer problems A summary at the end of each chapter to highlight key terminologies and concepts and important formulae developed in that chapter A number of worked out examples throughout the text review questions and exercise problems with answers at the end of each chapter This book is appropriate for a one semester course in Heat Transfer for undergraduate engineering students pursuing careers in mechanical metallurgical aerospace and chemical disciplines **Engineering Heat Transfer** Donatello Annaratone, 2010-11-04 This book is a generalist textbook it is designed for anybody interested in heat transmission including scholars designers and students Two criteria constitute the foundation of Annaratone's books including the present one The first one consists of indispensable scientific rigor without theoretical exasperation The inclusion in the book of some theoretical studies even if admirable for their scientific rigor would have strengthened the scientific foundation of this publication yet without providing the reader with further applicable know how The second criterion is to deliver practical solution to operational problems This criterion is fulfilled through equations based on scientific rigor as well as a series of approximated equations leading to convenient and practically acceptable solutions and through diagrams and tables When a practical case is close to a well defined theoretical solution

corrective factors are shown to offer simple and correct solutions to the problem

Introduction to Engineering Heat Transfer G. F. Nellis, S. A. Klein, 2020-07-30 This new text integrates fundamental theory with modern computational tools such as EES MATLAB and FEHT to equip students with the essential tools for designing and optimizing real world systems and the skills needed to become effective practicing engineers Real engineering problems are illustrated and solved in a clear step by step manner Starting from first principles derivations are tailored to be accessible to undergraduates by separating the formulation and analysis from the solution and exploration steps to encourage a deep and practical understanding Numerous exercises are provided for homework and self study and include standard hand calculations as well as more advanced project focused problems for the practice and application of computational tools Appendices include reference tables for thermophysical properties and answers to selected homework problems from the book Complete with an online package of guidance documents on EES MATLAB and FEHT software sample code lecture slides video tutorials and a test bank and full solutions manual for instructors this is an ideal text for undergraduate heat transfer courses and a useful guide for practicing engineers

Introduction to Enhanced Heat Transfer Sujoy Kumar Saha, Hrishiraj Ranjan, Madhu Sruthi Emani, Anand Kumar Bharti, 2019-06-29 This Brief stands as a primer for heat transfer fundamentals in heat transfer enhancement devices the definition of heat transfer area passive and active enhancement techniques and their potential and benefits and commercial applications It further examines techniques and modes of heat transfer like single phase flow and two phase flow natural and forced convection radiation heat transfer and convective mass transfer

Heat Transfer Applications for the Practicing Engineer Louis Theodore, 2011-11-01 This book serves as a training tool for individuals in industry and academia involved with heat transfer applications Although the literature is inundated with texts emphasizing theory and theoretical derivations the goal of this book is to present the subject of heat transfer from a strictly pragmatic point of view The book is divided into four Parts Introduction Principles Equipment Design Procedures and Applications and ABET related Topics The first Part provides a series of chapters concerned with introductory topics that are required when solving most engineering problems including those in heat transfer The second Part of the book is concerned with heat transfer principles Topics that receive treatment include Steady state Heat Conduction Unsteady state Heat Conduction Forced Convection Free Convection Radiation Boiling and Condensation and Cryogenics Part three considered the heart of the book addresses heat transfer equipment design procedures and applications In addition to providing a detailed treatment of the various types of heat exchangers this part also examines the impact of entropy calculations on exchanger design and operation maintenance and inspection OM I plus refractory and insulation effects The concluding Part of the text examines ABET Accreditation Board for Engineering and Technology related topics of concern including economics and finance numerical methods open ended problems ethics environmental management and safety and accident management

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