

# 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,  $\alpha$  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  $x = x$ ,  $T = T_2$ .

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

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

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

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

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

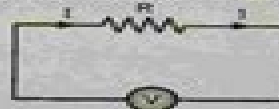
$$Q = \frac{k_m \cdot A (T_1 - T_2)}{x} \quad \dots(2.1.2)$$

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  $I$ .

# Heat Transfer Eng

**Sujoy Kumar Saha,Hrishiraj  
Ranjan,Madhu Sruthi Emani,Anand  
Kumar Bharti**

## **Heat Transfer Eng:**

**Engineering Heat Transfer** M. M. Rathore, R. Kapuno, 2010-06-30      **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      **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** 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** C. Balaji, Balaji Srinivasan, Sateesh Gedupudi, 2020-11-21 Heat Transfer Engineering Fundamentals and Techniques reviews the core mechanisms of heat transfer and provides modern methods to solve practical problems encountered by working practitioners with a particular focus on developing engagement and motivation The book reviews fundamental concepts in conduction forced convection free convection boiling condensation heat exchangers and mass transfer succinctly and without

unnecessary exposition Throughout copious examples drawn from current industrial practice are examined with an emphasis on problem solving for interest and insight rather than the procedural approaches often adopted in courses The book contains numerous important solved and unsolved problems utilizing modern tools and computational sources wherever relevant A subsection on common issues and recent advances is presented in each chapter encouraging the reader to explore a greater diversity of problems Reveals physical solutions alongside their application in practical problems with an aim of generating interest from reality rather than dry exposition Reviews pertinent contemporary computational tools including emerging topics such as machine learning Describes the complexity of modern heat transfer in an engaging and conversational style greatly adding to the uniqueness and accessibility of the book FUNDAMENTALS OF HEAT AND MASS TRANSFER B. K. VENKANNA,2010-01-01 This comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology Heat Transfer Engineering ,2009 **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* Donatello Annaratone,2010-03-14 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

**Heat Transfer Engineering** Hilbert Schenck (Jr.), 1960

**Engineering Heat Transfer** John R. Simonson, 1975 Previous edition published as *An introduction to engineering heat transfer*

*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

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**Engineering Heat Transfer** Bhalchandra V. Karlekar, Robert M. Desmond, 1977      *Heat Transfer Engineering* Hilbert van Nydeck Schenck, 1960      **Heat Transfer in Aerospace Applications** Bengt Sundén, Juan Fu, 2016-10-19

Heat Transfer in Aerospace Applications is the first book to provide an overall description of various heat transfer issues of relevance for aerospace applications. The book contains chapters relating to convection cooling, heat pipes, ablation, heat transfer at high velocity, low pressure, and microgravity aircraft heat exchangers, fuel cells, and cryogenic cooling systems. Chapters specific to low density heat transfer 4 and microgravity heat transfer 9 are newer subjects which have not been previously covered. The book takes a basic engineering approach by including correlations and examples that an engineer needs during the initial phases of vehicle design or to quickly analyze and solve a specific problem. Designed for mechanical, chemical, and aerospace engineers in research institutes, companies, and consulting firms, this book is an invaluable resource for the latest on aerospace heat transfer engineering and research. Provides an overall description of heat transfer issues of relevance for aerospace applications. Discusses why thermal problems arise and introduces the various heat transfer modes. Helps solve the problem of selecting and calculating the cooling system, the heat exchanger, and heat protection. Features a collection of problems in which the methods presented in the book can be used to solve these problems.

**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.

*An Introduction to Mass and Heat Transfer* Stanley Middleman, 1997-10-30. This text is the outgrowth of Stanley Middleman's years of teaching and contains more than sufficient materials to support a one semester course in fluid dynamics. His primary belief in the classroom and hence the material in this textbook is that the development of a mathematical model is central to the analysis and design of an engineering system or process. His text is therefore oriented toward teaching students how to develop mathematical representations of physical phenomena. Great effort has been put forth to provide many examples of experimental data against which the results of modeling exercises can be compared and to expose students to the wide range of technologies of interest to chemical, environmental, and bio engineering students. Examples presented are motivated by real engineering applications and many of the problems are derived from the author's years of experience as a consultant to companies whose businesses cover a broad spectrum of engineering technologies.

*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

**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

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