

Nusselt Number

In convection studies, it is common practice to nondimensionalize the governing equations and combine the variables, which group together into *dimensionless numbers* in order to reduce the number of total variables.

Nusselt number: Dimensionless convection heat transfer coefficient

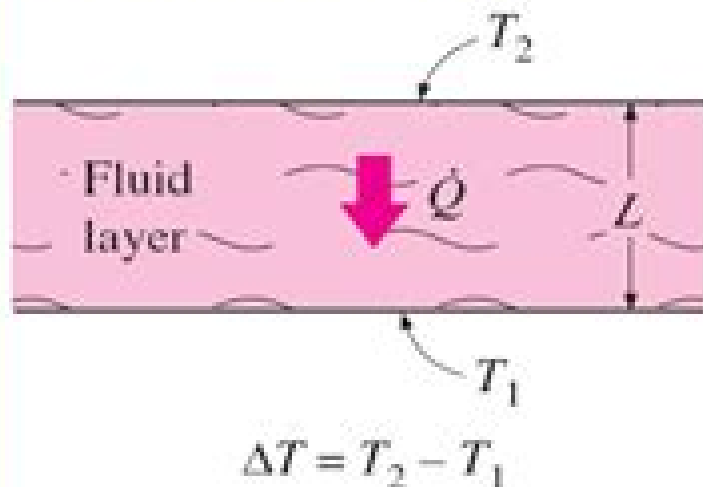
$$Nu = \frac{hL_c}{k}$$

L_c characteristic length

$$\dot{q}_{conv} = h\Delta T$$

$$\dot{q}_{cond} = k \frac{\Delta T}{L}$$

$$\frac{\dot{q}_{conv}}{\dot{q}_{cond}} = \frac{h\Delta T}{k\Delta T/L} = \frac{hL}{k} = Nu$$



Heat transfer through a fluid layer of thickness L and temperature difference ΔT .

The Nusselt number represents the enhancement of heat transfer through a fluid layer as a result of convection relative to conduction across the same fluid layer.

The larger the Nusselt number, the more effective the convection.

A Nusselt number of $Nu = 1$ for a fluid layer represents heat transfer across the layer by pure conduction.

Basic Heat Transfer

J.R. Simonson



Basic Heat Transfer:

Basic Heat Transfer M. Necati Özışık, M. Necati Özışık, 1977 **Heat Transfer** M. Necati Özışık, 1985 **Heat Transfer** Peter Böckh, Thomas Wetzel, 2011-10-12 The book provides an easy way to understand the fundamentals of heat transfer. The reader will acquire the ability to design and analyze heat exchangers. Without extensive derivation of the fundamentals, the latest correlations for heat transfer coefficients and their application are discussed. The following topics are presented: Steady state and transient heat conduction, Free and forced convection, Finned surfaces, Condensation and boiling, Radiation, Heat exchanger design, Problem solving. After introducing the basic terminology, the reader is made familiar with the different mechanisms of heat transfer. Their practical application is demonstrated in examples which are available in the Internet as MathCad files for further use. Tables of material properties and formulas for their use in programs are included in the appendix. This book will serve as a valuable resource for both students and engineers in the industry. The author's experience indicates that students after 40 lectures and exercises of 45 minutes based on this textbook have proved capable of designing independently complex heat exchangers such as for cooling of rocket propulsion chambers, condensers and evaporators for heat pumps. Basic Heat Transfer D. H. Bacon, 2013-10-22 Basic Heat Transfer aims to help readers use a computer to solve heat transfer problems and to promote greater understanding by changing data values and observing the effects which are necessary in design and optimization calculations. The book is concerned with applications including insulation and heating in buildings and pipes, temperature distributions in solids for steady state and transient conditions, the determination of surface heat transfer coefficients for convection in various situations, radiation heat transfer in grey body problems, the use of finned surfaces and simple heat exchanger design calculations. The text also includes a review of the BASIC computing required and some mathematical programs to solve heat transfer problems. The book will be useful to mechanical engineers, students of engineering and designers. Basic Heat and Mass Transfer Anthony F. Mills, 1995 A unique feature of Basic Heat and Mass Transfer is that it has a fully integrated package of computer software. The software is intended to serve primarily as a tool for the student at college as well as later in engineering practice. **Basic Heat Transfer** Frank Kreith, William Z. Black, 1980 **Fundamental Principles of Heat Transfer** Stephen Whitaker, 2013-10-22 Fundamental Principles of Heat Transfer introduces the fundamental concepts of heat transfer: conduction, convection and radiation. It presents theoretical developments and example and design problems and illustrates the practical applications of fundamental principles. The chapters in this book cover various topics such as one dimensional and transient heat conduction, energy and turbulent transport, forced convection, thermal radiation and radiant energy exchange. There are example problems and solutions at the end of every chapter dealing with design problems. This book is a valuable introductory course in heat transfer for engineering students. **Basic Heat Transfer** Robert E. Hayes, J. P. Mmbaga, I. A. Cornejo, 2022 This book provides an introduction to the basic principles of heat transfer covering the three modes of conduction, convection and

radiation It is written primarily for senior level undergraduates in engineering but will also be of use to the practising professional

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

Heat and Mass Transfer Anthony Mills, 2018-05-04 This complete reference book covers topics in heat and mass transfer containing extensive information in the form of interesting and realistic examples problems charts tables illustrations and more Heat and Mass Transfer emphasizes practical processes and provides the resources necessary for performing accurate and efficient calculations This excellent reference comes with a complete set of fully integrated software available for download at crcpress.com consisting of 21 computer programs that facilitate calculations using procedures developed in the text Easy to follow instructions for software implementation make this a valuable tool for effective problem solving

Industrial Heat Transfer Alfred Schack, 1965 *Basic Heat Transfer* Joseph Mmbaga, Robert Hayes, 2015-08-12 This book provides a clear and concise introduction to heat transfer for senior level undergraduate students in engineering The main concepts are developed and summarized for practicing engineers with an extended introduction to the application numerical methods in heat transfer The reader will be able to master the following aspects of heat transfer Solve complex 1D conduction problems for both steady state and transient cases Understand the basic methodology for solving 2D and 3D conduction problems Have a basic understanding of the theory of convection Apply the correct correlation for solving

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practicing engineers as well as for advanced undergraduate and graduate students in mechanical and aerospace engineering energy engineering and related subjects **Basic Heat Transfer** M. Necati Ozisik,1987-06-01 **Heat Transfer** Alan T. Morpew,1952 **Heat Transfer Equipment Design** R. K. Shah,Eleswarapu Chinna Subbarao,R. A. Mashelkar,1988-07-01

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