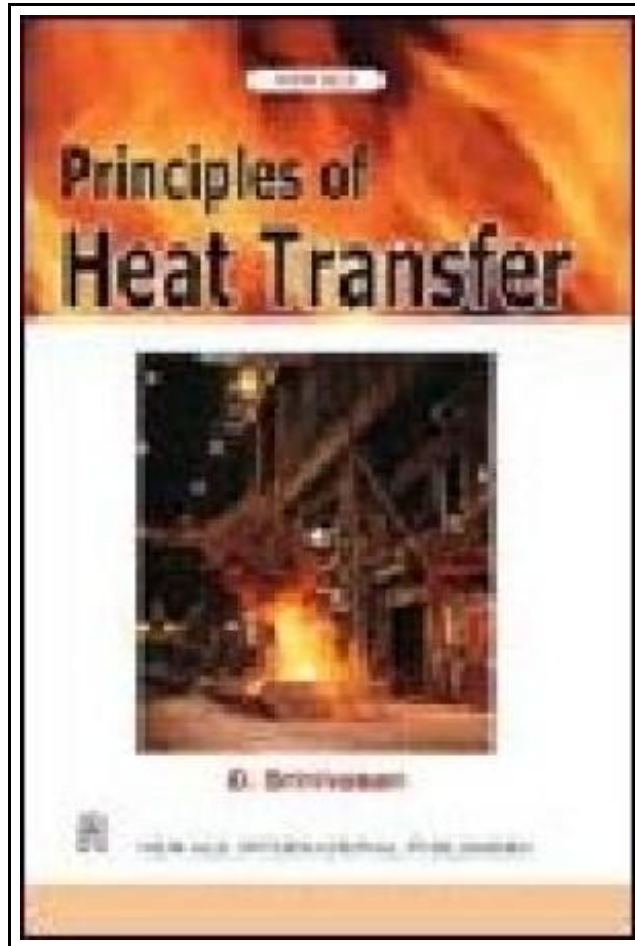


## Principles of Heat Transfer



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New Age International (P) Limited, 2007. Softcover. Book Condition: New. 5th or later edition. The presentation adopted in the preparation endeavors to convey to the student in a simple manner, a physical understanding of the processes by which heat is transmitted and provide him or her with the tools necessary to get quantitative solutions to engineering problems involving one or more of the basic modes of heat flow. Sufficient material has been included in the text to cater to the requirements of the undergraduate curriculum. Illustrations pertaining to the different modes of heat transfer and the design calculations of heat exchangers have been liberally included in the text. The purpose of this book is to present a basic introduction to the field of engineering heat transfer. The book begins with a brief presentation of the importance of heat transfer in chemical and processing industry and the modes of heat transfer. Chapter 2, dealing with conduction, includes a few aspects of conduction phenomenon, analogy between heat flow and electricity flow, critical thickness and conduction with internal generation of heat. In chapter 3, the concept of film coefficients is presented and the relationship between the individual and overall heat transfer coefficients are dealt with. The phenomenon of unsteady state heat transfer and the methods of solving one dimensional transient heat conduction problems have been discussed in chapter 4, which is on unsteady state heat conduction. Also the application of molecular transport theory to the unsteady state heat conduction is included. In chapter 5, which is on convection, a general basic concept, the application of dimensional analysis in the case of forced and free convection, the heat transfer from fins, the heat transfer to fluids in laminar flow inside tubes, heat transfer from condensed vapours and boiling heat transfer are included. The various...



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