
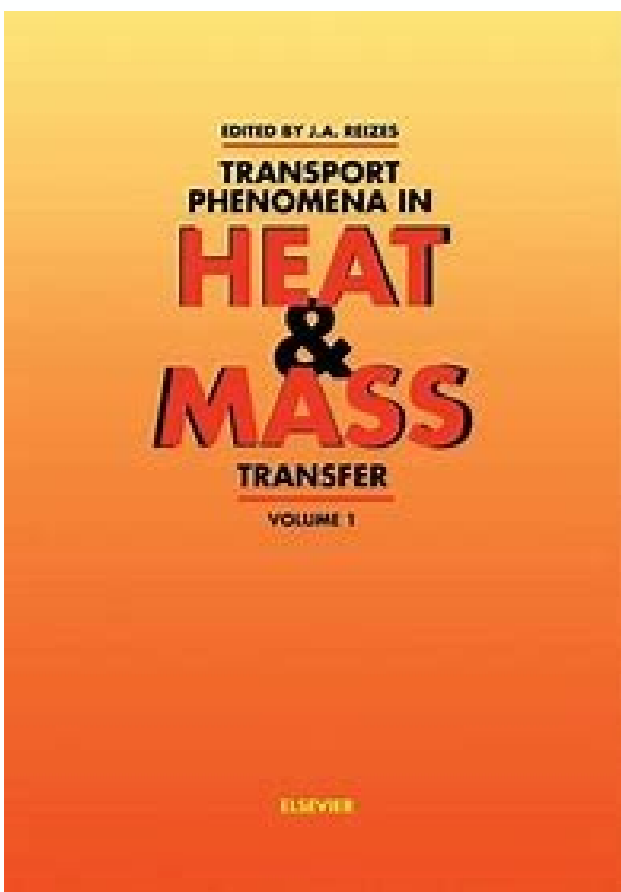
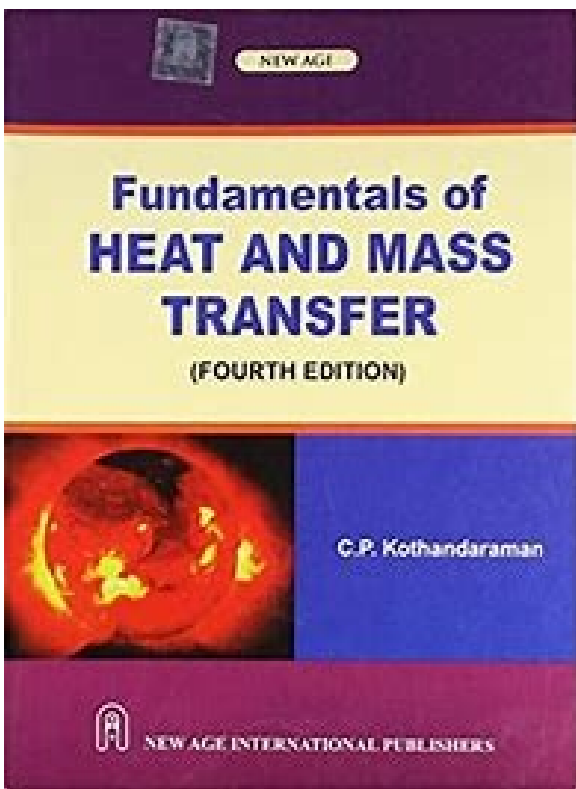
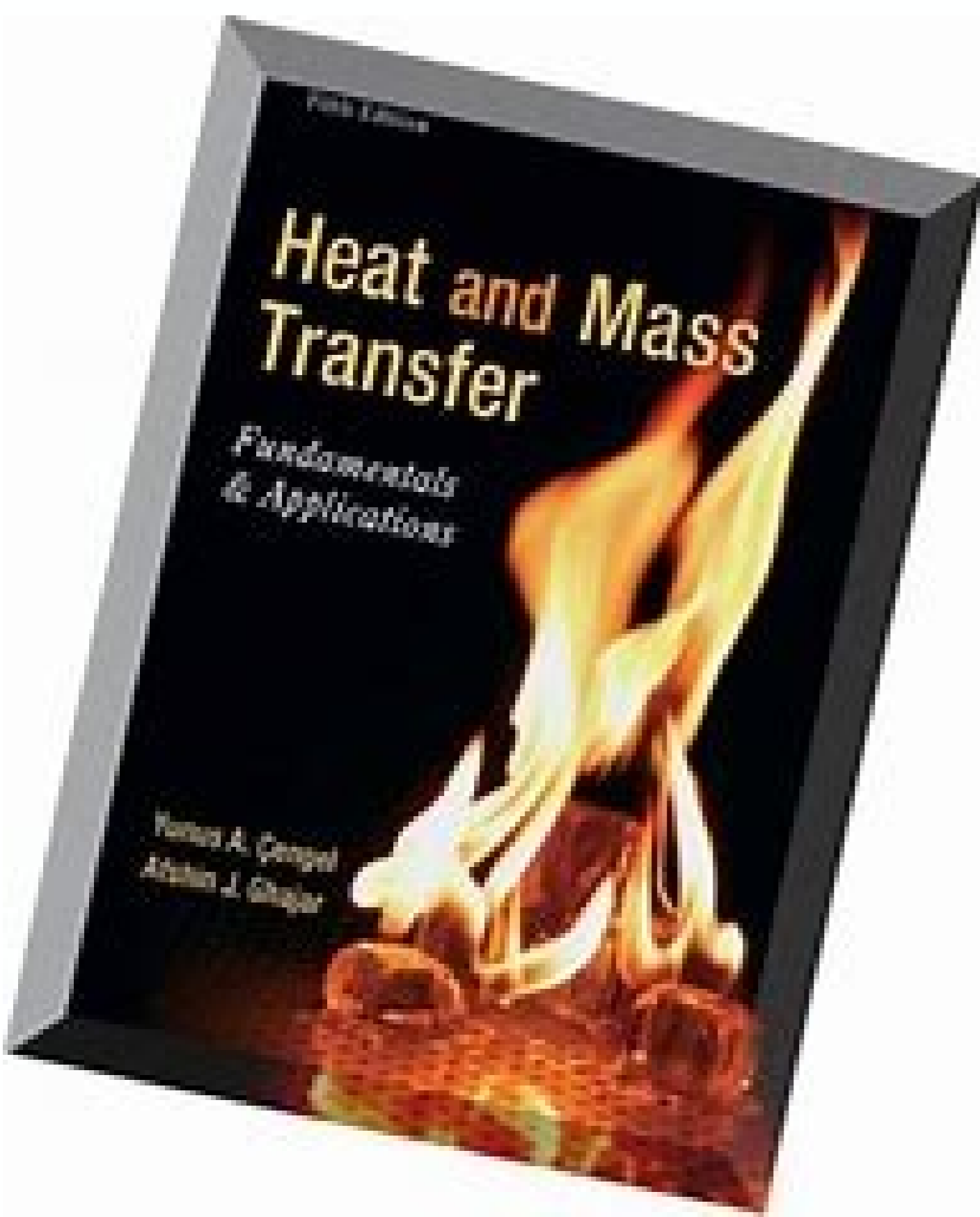
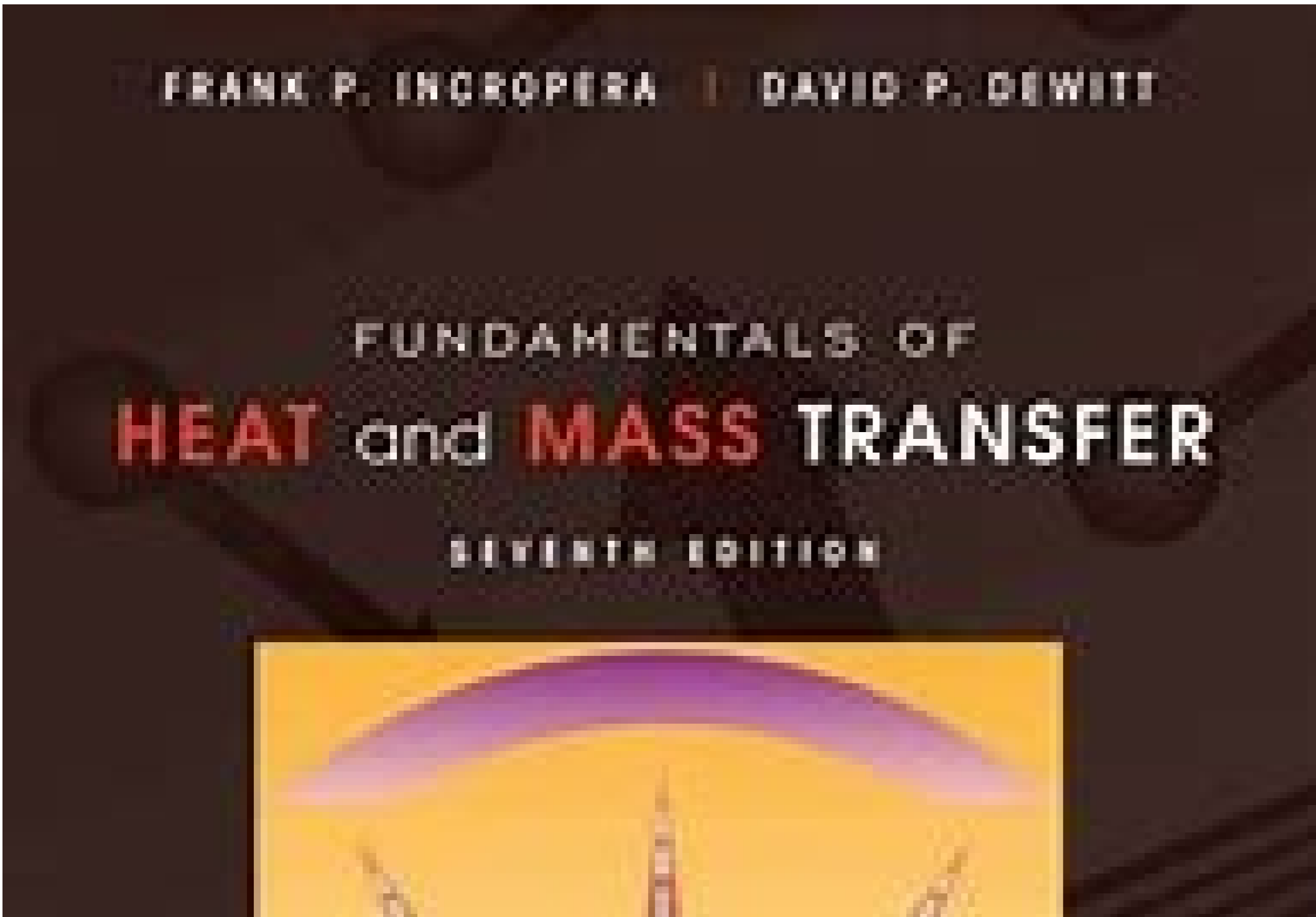
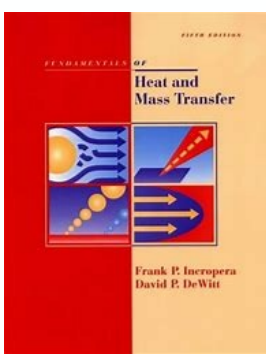


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31 JAHRGÄNGE 1999 à € "2020 This series of books publishes monographs and professional books in all fields of heat and mass transfer, presenting interrelations between scientific bases, experimental techniques, analysis of the results based on models and their transfer to technological applications. The authors are all the main experts in their fields. Heat and Mass Transfer is aimed at professionals and researchers, students and teachers. Its objective is to provide basic knowledge and practical solutions, while encouraging the debate and calls attention on essential synergies to launch new research projects. Select all / Deselect Allly does not have access to this book, but you can purchase chapters separated directly from the index or buy the full version. Applications in a flexible format, Heat and Mass Transfer: Fundamentals and Applications, from Yunus Cengel and Afshin Ghajar offers the perfect blend of basics and applications. The text provides a very intuitive and practical understanding of the material by emphasizing the physical and the underlying physical phenomenon involved. This text covers the standard themes of heat transfer with heaviness in physics and daily applications in the real world, while developing the mathematical aspects. This approach is designed to take advantage of the intuition of students, making the easiest and most attractive learning process. McGraw-Hillà € "s Connect, it is also available as an optional element. Connect is the only integrated learning system that trains students continuously to offer exactly what they need, when they need it, how they need it, so that class time is more effective. Connect allows you to assign assign assignments, exams and exams easily and automatically grade and record the scores of the student's work. Problems are randomized to prevent prevent answers and can also have a "multi-step solution", which helps to move the learning of students, if they experience difficulties. All the topics of advanced heat transfer and heat transfer relevant to heat conduction, convection, radiation and multi-stage transport phenomena are covered in a single textbook, and are explained from a fundamental point of view. The book presents integral, differential, and generalized mean formulations for the equations of transport phenomena. The book employs a top-down approach. For example, emphasize the basic physics of the problem by starting with a general government equation and narrowing it down for the particular problem. Instead of being contained in an individual chapter, mass transfer is integrated throughout the book. Modern applications of heat and mass transfer, for example. Nanotechnology, biotechnology, energy, materials processing, etc., are emphasized through examples and task problems. The fundamentals of the numerical approach are discussed to ensure that students understand the basis and limitations of these methods. Topics that are missing from most of the other books are integrated into colloquia; e.g. porous media, micro-scale, heat transfer and multi-component multi-phased systems. The book presents all forms of phase changes, which include boiling, condensation, fusion, solidification, sublimation and vapor deposition from a perspective in the context of fundamental treatment. The molecular approach to describing transport phenomena is also discussed, along with the connection between microscopic and molecular approaches. Heat and mass transfer can be found in many applications ranging from the design and optimization of traditional engineering systems, such as heat exchangers, the turbine, the electrical, heat pipes and food processing equipment, up to emerging technologies in sustainable energy, biological systems, security, Information Technology and nanotechnology. The purpose of this textbook is to the subject of heat and mass transfer, emphasizing the important progress made in this field over the last decade, while emphasizing the basic and fundamental principles. It provides advanced and relevant heat and mass transfer materials in a single volume for undergraduate and graduate students instead of relying on multiple books. Engineering students in a wide variety of engineering disciplines à from mechanical and chemical to biomedical and materials engineering à must master the principles of heat and mass transfer as an essential tool for analyzing and designing any system or systems where heat and mass are transferred. This textbook was developed to meet that need, with a clear presentation of the fundamentals, broad sets of problems to reinforce that knowledge, and tangible examples of how that knowledge is used in engineering design. Professional engineers, too, will find this invaluable book as a reference for everything from the traditional to the emerging heat and mass transfer system. Contents: Introduction; Generalized Regent Equations; Conduction of Heat; External Convective Heat Transfer and Mass Transfer; Internal convective heat transfer; Natural convection; Condensation and Evaporation; Ebullizion; Fundamentals of Thermal Radiation; Heat Transfer by Radiation. Page 2 Advanced Heat and Mass Transfer Amir Faghri, Yuwen Zhang, and John Howell Copyright © 2010 Global Digital Press Amir Faghri, Yuwen Zhang, and John Howell Copyright © 2010 Global Digital Press Advanced Heat and Mass Amir Faghri United Technologies Chair in Engineering Thermal Fluids Department of Mechanics Connecticut University of Engineering Storrs, Connecticut, USA Yuwen Zhang Professor Department of Mechanical Engineering and Aerospace University of Missouri Missouri, EE.UU. John Howell Baker-Hughes Professor Centenario Ernest Cockrell, Jr., Memorial Chair Departamento de Ingeniería Mecánica Universidad de Texas en Austin, Texas, EE.UU. EE.UU. Press Amir Faghri, Yuwen Zhang and John Howell Copyright à © 2010 Global Digital Press Posted by Global Digital Press 601 Business Loop 70 W., Suite 134h Columbia, MO 65 203, USA This book is printed on paper without acid. Copyright à © 2010 by Global Digital Press. All rights reserved. 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ISBN: 978-0-9 842 760-0-4 Printed in The United States of America 06 07 08 09 10 9 8 7 6 5 4 3 2 1 Amir Faghri, Yuwen Zhang and John Howell Copyright à © 2010 Global Digital Press Table Contents Preface Nomenclature Chapter 1 Introduction 1.1 Introduction 1.2 Fabric Concepts 1.2.1 Sensitive Heat 1.2.2 Latent Heat 1.2.3 Change of Phase 1.3 Molecular Level Presentation 1.3.1 Introduction 1.3.2 Cinetic Theory 1.3.3 Intermolecular Forces and Boltzmann Transport Ecuación 1.3.4 Cohesión and adhesion 1.3.5 Entalpy and Energy 1.4 Fundamentals of Momentum, Heat and Transfer of Mass 1.4.1 Limitations of continuous flow 1.4.2

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