

## Heat-and-Mass transfer analogy

► Developed shear stress correlation for:

- Gas slug zone (falling film + wake)
- Liquid slug zone

• Analogy: Transport of momentum, mass, heat and energy

- Lewis number:

$$\frac{Sh}{Nu} = \left( \frac{Sc}{Pr} \right)^{\frac{1}{3}} = Le^{\frac{1}{3}}$$

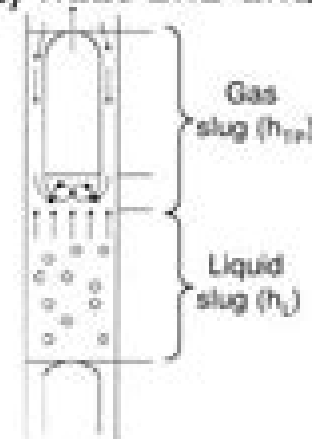
- Mass transfer coefficient:

$$k_m = \frac{h_{TP}}{\rho_{TP} c_{p,TP}} Le^{-\frac{2}{3}}$$

- Heat transfer coefficient:

$$h_{TP} = F_p h_L \left[ 1 + 0.55 \left( \frac{x}{1-x} \right)^{0.1} \left( \frac{1-F_p}{F_p} \right)^{0.4} \left( \frac{Pr_G}{Pr_L} \right)^{0.25} \left( \frac{\mu_L}{\mu_G} \right)^{0.25} (I^*)^{0.25} \right]$$

\*Ghajar, 2010



# Heat Mass Transfer In Technological Pr

**G Psacharopoulos**



## **Heat Mass Transfer In Technological Pr:**

**Heat Exchanger Technologies for Sustainable Renewable Energy Systems** Mukesh Kumar Awasthi, Ashwani Kumar, Nitesh Dutt, Sivasakthivel Thangavel, 2025-05-07 Heat Exchanger Technologies for Sustainable Renewable Energy Systems serves as a comprehensive resource on the cutting edge advancements and applications of heat exchanger technologies in the realm of renewable energy. This book delves into the fundamental principles, design methodologies, and operational strategies for optimizing heat exchange processes in various sustainable energy systems. Covering a wide range of topics, the book explores innovative heat exchanger designs, materials, and configurations that enhance thermal performance and efficiency. It examines the integration of heat exchangers in solar thermal systems, geothermal applications, and biomass energy systems, providing insights into their role in promoting energy conservation and sustainability. The content encompasses both theoretical frameworks and practical applications, featuring case studies that illustrate successful implementations of heat exchanger technologies in real-world scenarios. Readers will gain a thorough understanding of performance evaluation metrics, modeling techniques, and experimental methodologies used to assess heat exchanger efficiency. Key features of the book: Discusses the principles of heat transfer and fluid dynamics relevant to heat exchangers. Investigates emerging materials and design innovations for enhanced thermal performance. Explores the application of heat exchangers in various renewable energy systems, including solar, geothermal, and biomass. Provides an in-depth analysis of modeling techniques and performance evaluation criteria. Highlights recent developments in heat exchanger technologies and their impact on sustainability. Targeted at researchers, engineers, and students in the fields of renewable energy, mechanical engineering, and environmental science, this book is an essential guide for anyone seeking to advance their understanding of heat exchanger technologies and their vital role in sustainable energy systems. *Industrial Chemistry Library* **High Pressure Process Technology Fundamentals and Applications** Mr. Rohit Manglik, 2023-06-23 Explores high pressure process technologies, their fundamentals, and applications in industrial chemistry for enhanced reaction efficiency.

**High Pressure Process Technology: Fundamentals and Applications** A. Bertucco, G. Vetter, 2001-10-15 Clear evidence of increasing demands in the processing industry prompted the editors and authors to publish a new book about High Pressure Process Technology Fundamentals and Applications. This book presents the latest knowledge regarding the high pressure processing aspects combined with that about the modeling, the design, and the operation of safe and reliable high pressure plants and equipment. This treatment and selection of the subjects is stimulating and unique. Consisting of nine chapters, each subdivided into several sections, the book addresses the high pressure aspects, providing well-selected correlated information connected with a comprehensive overview together with a large number of references. The main body of the first eight chapters refers to subjects like high pressure in general, the thermodynamics and kinetics of the fluids involved, the design of high pressure equipment, the modeling and design of reactors, separation and fractionation units, the

safety aspects the control and economics In the extended last chapter examples of promising high pressure applications are explained such as chemical and enzymatic reactions in supercritical solvents hydrogenation under supercritical conditions supercritical water oxidation polymerization with metallocene catalysts supercritical extraction fractionation and precipitation supercritical pharma processing ultra high pressure sterilization and supercritical dry cleaning Postharvest Technology and Food Process Engineering Amalendu Chakraverty, R. Paul Singh, 2016-03-09 Cereals legumes oilseeds fruits and vegetables are the most important food crops in the world with cereal grains contributing the bulk of food calories and proteins worldwide Generally the supply of grains and other food can be enhanced by increasing production and by reducing postharvest losses While food production has increased significantly **Technical Report** Cold Regions Research and Engineering Laboratory (U.S.), 1979 **Drying Technologies in Food Processing** Xiao Dong Chen, Arun S. Mujumdar, 2009-03-16 Drying is by far the most useful large scale operation method of keeping solid foods safe for long periods of time and is of fundamental importance in most sectors of food processing Drying operations need to be precisely controlled and optimized in order to produce a good quality product that has the highest level of nutrient retention and flavor whilst maintaining microbial safety This volume provides an up to date account of all the major drying technologies employed in the food industry and their underlying scientific principles and effects Various equipment designs are classified and described The impact of drying on food properties is covered and the micro structural changes caused by the process are examined highlighting their usefulness in process analysis and food design Key methods for assessing food properties of dried products are described and pre concentration and drying control strategies are reviewed Thermal hazards and fire explosion detection and prevention for dryers are discussed in a dedicated chapter Where appropriate sample calculations are included for engineers and technologists to follow The book is directed at food scientists and technologists in industry and research food engineers and drying equipment manufacturers *Scientific and Technical Aerospace Reports*, 1980 *Metallurgical Technologies, Energy Conversion, and Magnetohydrodynamic Flows* Herman Branover, Yeshajahu Unger, 1993 Advances and Trends in Engineering Sciences and Technologies Mohamad Ali, Peter Platko, 2015-10-06 The International Conference on Engineering Sciences and Technologies ESaT 2015 organized under the auspices of the Faculty of Civil Engineering Technical University in Košice Slovak Republic was held May 27-29 2015 in the High Tatras Slovak Republic Facilitating discussions on novel and fundamental advances in the fields of *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards, 1979 *Mixing Process Technology* Kishore Kar, Richard Cope, Juergen Lueske, 2025-07-31 Industrial mixing processes often present multiple optimization challenges to producing desirable products The resulting processes must be cost effective first time right and frequently the designated most effective technology for the global manufacture of specific products *Mixing Process Technology A Guide to Industrial Applications* shares the authors extensive knowledge of mixing research and industrial practice It features 20 industrial

mixing chapters that are purposely light on mixing fundamentals while heavy on practical mixing applications for practical process design and manufacturing This text serves as an applied guide to industrial mixing for practitioners who want brief explanations of mixing concepts with real life examples and software to help perform associated design calculations This book also Offers side by side discussion of mixing systems including impellers and rotor stators as offered by several major manufacturers Describes the authors innovative mixer designs to meet manufacturing needs Includes a chapter by a mixer manufacturing representative describing design sizing and expensing of industrial mixers Presents a chapter by a mixing equipment manufacturing leader that explains mechanical design considerations in clear terms Contains a chapter on emerging mixing technologies including mixing via resonant acoustics and controlled cavitation Discusses computational fluid dynamics in mixing with multiple practical examples by a contributing author from a leading pharmaceutical company Includes Excel based mixing worksheets throughout book examples and Excel based input output mixit io interface hosted on the publisher s website This book is aimed at chemical and process engineers as well as students seeking to understand industrial mixing technology      **Air Cooling Technology for Electronic Equipment** Sung Jin Kim,Sang Woo

Lee,2020-07-24 Clear your bookcase of references containing bits and pieces of useful information and replace them with this thorough single volume guide to thermal analysis Air Cooling Technology for Electronic Equipment is a helpful practical resource that answers questions frequently asked by thermal and packaging engineers grappling with today s demand for increased thermal control in electronics Superbly organized for quick reference the book dedicates each chapter to answering fundamental questions such as What is the optimal spacing between the printed circuit boards What is a good estimate of the heat transfer coefficient and the associate pressure drop for forced convection over package arrays How are heat transfer and fluid flow characteristics in the entrance region different from those in the fully developed region What is the effect of substrate conduction on convection cooling The chapters written by engineers and engineering educators who are experts in electronic cooling are packed with details and present the latest developments in air cooling techniques and thermal design guidelines They provide problem solving analyses that are jargon free straightforward and easy to understand Air Cooling Technology for Electronic Equipment is a handy source of technical information for anyone who wants to get the most out of air cooling      *Handbook of Research on Solar Energy Systems and Technologies* Anwar, Sohail,Efstathiadis, Harry,Qazi, Salahuddin,2012-08-31 The last ten years have seen rapid advances in nanoscience and nanotechnology allowing unprecedented manipulation of the nanoscale structures controlling solar capture conversion and storage Filled with cutting edge solar energy research and reference materials the Handbook of Research on Solar Energy Systems and Technologies serves as a one stop resource for the latest information regarding different topical areas within solar energy This handbook will emphasize the application of nanotechnology innovations to solar energy technologies explore current and future developments in third generation solar cells and provide a detailed economic analysis of solar energy applications

Chemical Technology Andreas Jess, Peter Wasserscheid, 2020-04-06 A fully updated edition of a popular textbook covering the four disciplines of chemical technology featuring new developments in the field Clear and thorough throughout this textbook covers the major sub disciplines of modern chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology alongside raw materials energy sources and detailed descriptions of 24 important industrial processes and products It brings information on energy and raw material consumption and production data of chemicals up to date and offers not just improved and extended chapters but completely new ones as well This new edition of Chemical Technology From Principles to Products features a new chapter illustrating the global economic map and its development from the 15th century until today and another on energy consumption in human history Chemical key technologies for a future sustainable energy system such as power to X and hydrogen storage are now also examined Chapters on inorganic products material reserves and water consumption and resources have been extended while another presents environmental aspects of plastic pollution and handling of plastic waste The book also adds four important processes to its pages production of titanium dioxide silicon production and chemical recycling of polytetrafluoroethylene and fermentative synthesis of amino acids Provides comprehensive coverage of chemical technology from the fundamentals to 24 of the most important processes Intertwines the four disciplines of chemical technology chemistry thermal and mechanical unit operations chemical reaction engineering and general chemical technology Fully updated with new content on power to X and hydrogen storage inorganic products including metals glass and ceramics water consumption and pollution and additional industrial processes Written by authors with extensive experience in teaching the topic and helping students understand the complex concepts Chemical Technology From Principles to Products Second Edition is an ideal textbook for advanced students of chemical technology and will appeal to anyone in chemical engineering *Technical Proceedings of the 2007 Cleantech Conference and Trade Show* NanoScience & Technology Inst, 2019-08-22 The Cleantech conference which runs parallel with NSTI s Nanotech is designed to promote advancements in traditional technologies emerging technologies and clean business practices covering important developments in renewable energy clean technologies business and policy bio energy and novel technologies as well as environme

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Kompella,Boris Y. Shekunov,2004-03-23 Interconnecting the fundamentals of supercritical fluid SCF technologies their current and anticipated utility in drug delivery and process engineering advances from related methodological domains and pharmaceutical applications this volume unlocks the potential of supercritical fluids to further the development of improved pharmaceutical products from drug powders for respiratory delivery to drug delivery systems for controlled release

NASA Technical Translation ,1978 Chemical Reaction Engineering and Reactor Technology, Second Edition Tapio O. Salmi,Jyri-Pekka Mikkola,Johan P. Wärnå,2019-07-11 The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes Thoroughly revised and updated this much anticipated Second Edition addresses the rapid academic and industrial development of chemical reaction engineering Offering a systematic development of the chemical reaction engineering concept this volume explores essential stoichiometric kinetic and thermodynamic terms needed in the analysis of chemical reactors homogeneous and heterogeneous reactors reactor optimization aspects residence time distributions and non ideal flow conditions in industrial reactors solutions of algebraic and ordinary differential equation systems gas and liquid phase diffusion coefficients and gas film coefficients correlations for gas liquid systems solubilities of gases in liquids guidelines for laboratory reactors and the estimation of kinetic parameters The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals the text provides a clear understanding of chemical reactor analysis and design

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