Heat-and-Mass transfer analogy

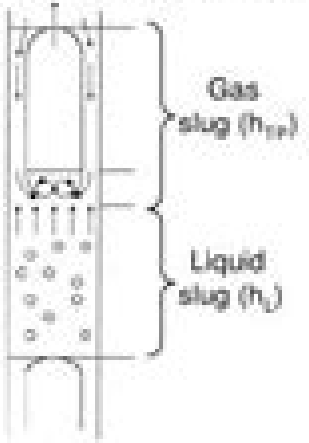
- Developed shear stress correlation for:
  - Gas slug zone (falling film + wake)
  - Liquid slug zone
- Analogy: Transport of momentum, mass, heat and energy
  - Lewis number:

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

  - Mass transfer coefficient:

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

  - Heat transfer coefficient:



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

*Ghajar, 2010

Heat Mass Transfer In Technological Pr

Albert A Gayle

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 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 **Technical Report** Cold Regions Research and Engineering Laboratory (U.S.),1979 **Scientific and Technical Aerospace Reports** ,1980 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 significa 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

Metallurgical Technologies, Energy Conversion, and Magnetohydrodynamic Flows Herman Branover,Yeshajahu Unger,1993 *Publications of the National Bureau of Standards, 1979 Catalog* United States. National Bureau of Standards,1980 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 Koice Slovak Republic was held May 2729 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

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