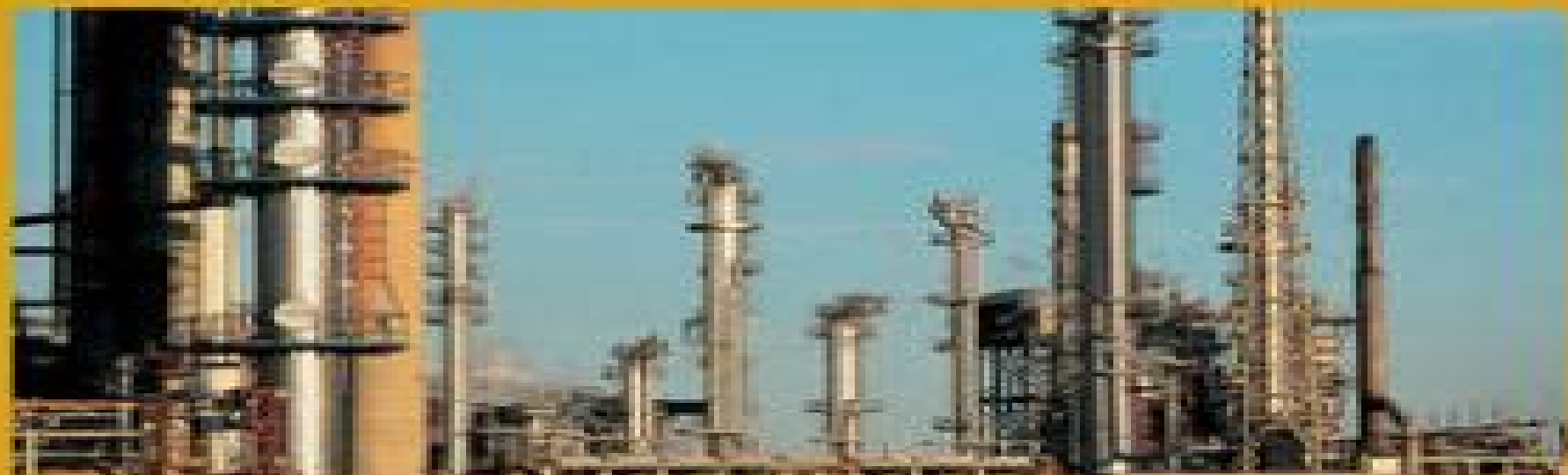


Fluid Mechanics, Heat Transfer, and Mass Transfer

Chemical Engineering Practice

K. S. N. Raju



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Mass Transfer In Engineering Practice

**T. W. Fraser Russell, Anne S.
Robinson, Norman J. Wagner**



Mass Transfer In Engineering Practice:

Mass Transfer in Engineering Practice Aksel Lydersen, 1983-01-01 **Mass Transfer in Engineering Practice** Aksel Lydersen, 1983 **MASS TRANSFER** N. Anantharaman, K. M. Meera Sheriffa Begum, 2011-05

Mass transfer operations are of great importance in a process industry as it has a direct impact on the cost of the final product. A chemical process engineer therefore should have sound knowledge of the basics of mass transfer and its applications. This book is designed to equip the reader with sufficient knowledge of mass transfer operations and face the challenges ahead. The objective of this textbook is to teach a budding chemical engineer the principles involved in analyzing a process and apply the desired mass transfer operation to separate the components involved. It deals with operations involving diffusion, interphase mass transfer, humidification, drying, crystallization, absorption, distillation, extraction, leaching, and adsorption. The principles and equipment used for different mass transfer operations have been lucidly explained. Designed for a two semester course, this text is primarily intended for the undergraduate students of chemical, pharmaceutical, petrochemical engineering as well as biotechnology and industrial biotechnology. It will also be useful to plant engineers and design professionals.

KEY FEATURES

- 1 Explains the theoretical concepts with full derivation of equations
- 2 Illustrates the application of theory through worked out numerical examples
- 3 Provides exercise problems with answers at the end of each chapter for practice

Mass Transfer in Engineering Practice Lydersen AL., 1983 Fluid Mechanics, Heat Transfer, and Mass Transfer K. S. Raju, 2011-04-20

This broad based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas namely Fluid Mechanics, Heat Transfer or Mass Transfer rather than all the three. This book presents this material in a single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory rather than practical issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting the stereo typed question answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field.

Fluid Mechanics chapters include basics on non Newtonian systems which for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NO_x control find place in the book. Mass transfer chapters cover basics such as diffusion theories, analogies, mass transfer coefficients and mass transfer with chemical reaction.

equipment such as tray and packed columns column internals including structural packings design operational and installation issues drums and separators are discussed in good detail Absorption distillation extraction and leaching with applications and design methods including emerging practices involving Divided Wall and Petluk column arrangements multicomponent separations supercritical solvent extraction find place in the book *Mass Transfer Operations for the Practicing Engineer* Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems Both traditional and novel mass transfer processes receive treatment As with all of the books in this series emphasis is placed on an example based approach to illustrating key engineering concepts The book is divided into two major parts It starts with the principles underlying engineering problems showing readers how to apply general engineering principles to the topic of mass transfer operations It then goes on to provide step by step guidance for traditional mass transfer operations including distillation absorption and stripping and adsorption plus novel mass transfer processes Essential topics for professional engineering exams are also covered Geared towards chemical environmental civil and mechanical engineers working on real world industrial applications *Mass Transfer Operations for the Practicing Engineer* features Numerous sample problems and solutions with real world applications Clear precise explanations on how to carry out the basic calculations associated with mass transfer operations Coverage of topics from the ground up for readers without prior knowledge of the subject Overview of topics relevant to the ABET Accreditation Board for Engineering and Technology for those taking the Professional Engineering PE exams Appendix containing relevant mass transfer operation charts and tables

FUNDAMENTALS OF HEAT AND MASS TRANSFER B. K. VENKANNA, 2010-01-01 This comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology *Mass Transfer and Separation Processes* Diran Basmadjian, 2007-04-25 Mass transfer along with separation processes is an area that is often quite challenging to master as most volumes currently available complicate the learning by teaching mass transfer linked with heat transfer rather than focusing on more relevant techniques With this thoroughly updated second edition *Mass Transfer and Separation Processes* Pr

Mass Transfer in Chemical Engineering Processes Jozef Markoš, 2011-11-04 This book offers several solutions or approaches in solving mass transfer problems for different practical chemical engineering applications measurements of the diffusion coefficients estimation of

the mass transfer coefficients mass transfer limitation in separation processes like drying extractions absorption membrane processes mass transfer in the microbial fuel cell design and problems of the mass transfer coupled with the heterogeneous combustion I believe this book can provide its readers with interesting ideas and inspirations or direct solutions of their particular problems

Handbook of Food Engineering Dennis R. Heldman, Daryl B. Lund, Cristina Sabliov, 2006-11-06 As the demand for safe nutritious convenient foods continues to rise and the capabilities of molecular biology and nutritional biochemistry continue to expand the need for up to date engineering information becomes ever more critical The application of innovative engineering concepts enables scientific breakthroughs to be utilized in the manuf

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

Fundamentals of Heat and Mass Transfer T. L. Bergman, 2011-04-12 Fundamentals of Heat and Mass Transfer 7th Edition is the gold standard of heat transfer pedagogy for more than 30 years with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education research and practice Using a rigorous and systematic problem solving methodology pioneered by this text it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline This edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades energy and the environment An updated version of Interactive Heat Transfer IHT software makes it even easier to efficiently and accurately solve problems

Heat and Mass Transfer Kurt C. Rolle, 2016 *Heat and Mass Transfer, SI Edition* Kurt Rolle, 2015-01-20 Thoroughly up to date and packed with real world examples that apply concepts to engineering practice HEAT AND MASS TRANSFER 2e presents the fundamental concepts of heat and mass transfer demonstrating their complementary nature in engineering applications Comprehensive yet more concise than other books for the course the Second Edition provides a solid introduction to the scientific mathematical and empirical methods for treating heat and mass transfer phenomena along with the tools needed to assess and solve a variety of contemporary engineering problems Practical guidance throughout helps students learn to anticipate the reasonable answers for a particular system or process and understand that there is often more than one way to solve a particular problem Especially strong coverage of radiation view factors sets the book apart from other texts available for the course while a new emphasis on renewable energy and energy efficiency prepares students for engineering practice in the 21st century Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES DUTTA, BINAY K., 2007-01-21 This textbook is targetted to undergraduate students in chemical engineering chemical technology and

biochemical engineering for courses in mass transfer separation processes transport processes and unit operations The principles of mass transfer both diffusional and convective have been comprehensively discussed The application of these principles to separation processes is explained The more common separation processes used in the chemical industries are individually described in separate chapters The book also provides a good understanding of the construction the operating principles and the selection criteria of separation equipment Recent developments in equipment have been included as far as possible The procedure of equipment design and sizing has been illustrated by simple examples An overview of different applications and aspects of membrane separation has also been provided Humidification and water cooling necessary in every process industry is also described Finally elementary principles of unsteady state diffusion and mass transfer accompanied by a chemical reaction are covered

SALIENT FEATURES A balanced coverage of theoretical principles and applications Important recent developments in mass transfer equipment and practice are included A large number of solved problems of varying levels of complexities showing the applications of the theory are included Many end chapter exercises Chapter wise multiple choice questions An Instructors manual for the teachers

Mass and Heat Transfer T. W. Fraser Russell, Anne S. Robinson, Norman J. Wagner, 2008-02-11 This text allows instructors to teach a course on heat and mass transfer that will equip students with the pragmatic applied skills required by the modern chemical industry This new approach is a combined presentation of heat and mass transfer maintaining mathematical rigor while keeping mathematical analysis to a minimum This allows students to develop a strong conceptual understanding and teaches them how to become proficient in engineering analysis of mass contactors and heat exchangers and the transport theory used as a basis for determining how the critical coefficients depend upon physical properties and fluid motions Students will first study the engineering analysis and design of equipment important in experiments and for the processing of material at the commercial scale The second part of the book presents the fundamentals of transport phenomena relevant to these applications A complete teaching package includes a comprehensive instructor's guide exercises design case studies and project assignments

Mass Transfer in Three-phase Fluidized Beds, 1978 *Industrial Ventilation Design Guidebook* Howard D. Goodfellow, Esko Tahti, 2001-04-17 The Industrial Ventilation Design Guidebook addresses the design of air technology systems for the control of contaminants in industrial workplaces such as factories and manufacturing plants It covers the basic theories and science behind the technical solutions for industrial air technology and includes publication of new fundamental research and design equations contributed by more than 40 engineers and scientists from over 18 countries Readers are presented with scientific research and data for improving the indoor air quality in the workplace and reducing emissions to the outside environment The Guidebook represents for the first time a single source of all current scientific information available on the subject of industrial ventilation and the more general area of industrial air technology New Russian data is included that fills several gaps in the scientific literature Presents technology for energy optimization

and environmental benefits A collaborated effort from more than 60 ventilation experts throughout 18 countries Based on more than 50 million dollars of research and development focused on industrial ventilation Includes significant scientific contributions from leading ventilation experts in Russia Presents new innovations including a rigorous design methodology and target levels Contains extensive sections on design with modeling techniques Content is well organized and easily adaptable to computer applications

Emerging Thermal Processes in the Food Industry Seid Mahdi Jafari, 2022-11-20

Emerging Thermal Processes in the Food Industry a volume in the Unit Operations and Processing Equipment in the Food Industry series explains the processing operations and equipment necessary for thermal processing including infrared heating microwave processing sonication UV processing ohmic heating and dielectric processing These processes and unit operations are very important in terms of achieving favorable sensory properties and energy usage Chapters emphasize basic texts relating to experimental theoretical computational and or applications of food engineering principles and relevant processing equipment for emerging thermal unit operations Written by experts in the field of food engineering in a simple and dynamic way this book targets industrial engineers working in the field of food processing and within food factories to make them more familiar with food processing operations and equipment Explores new opportunities in food processing through emerging thermal processes Discusses different alternatives for emerging thermal processing operations Helps improve the quality and safety of food products

Elements of Heat and Mass Transfer Vijay Gupta, 1995 This Text Is A Thoroughly Revised And Enlarged Edition Of The Book Heat And Mass Transfer Which Was Very Well Received By The Readers The Aim Of This Edition Remains The Same As That Of The First Edition To Guide The Students Towards A Sound Physical Basis Of Obtaining First Estimates Of The Varied Heat And Mass Transfer Problem That They Are Likely To Encounter For This Purpose The Book Develops The Physical Principles With A Fairly High Level Of Rigour But At The Same Time Devotes Considerable Attention To The Techniques Of Approximations And Modelling Of Complex Physical Situations So That They Become Amenable To Alimentary Methods Of Analysis Some Of The Novel Features Of This Book Are It Brings Together In Chapter 1 An Overview Of The Subject Exposing The Reader To The Wide Variety Of Contexts In Which Heat And Mass Transfer Problems Arise In Engineering Practice It Provides Very Early The Technique Of Normalizing The Governing Equations And Boundary Conditions To Be Able To Meaningfully Talk Of The Approximations Resorted To In Various Alimentary Techniques It Introduces The Essence Of The Convection Phenomenon Through One Case Where It Is Brought Out The Best With Least Clouding By Mathematics Namely Transpiration Cooling It Treats In Chapter 5 The Essentials Of Convection Including The Concept Of Boundary Layer And Dimensionless Correlations At A Lower mathematical Level Than It Is Traditionally Done It Brings Out The Concept Of Full Development With Physical Insights And It Consciously Attempts To Bring Out The Similarity Between Heat And Mass Transfer And Uses The Same Symbols With The Hope That The Additional Efforts To Learn Mass Transfer Will Be Considerably Reduced

Mass Transfer In Engineering Practice: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year.

Mass Transfer In Engineering Practice : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Mass Transfer In Engineering Practice : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting.

These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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