

WAS TRANSFER OPERATIONS FOR THE PRACTICING ENGINEER

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MEMBER A.S.T.M.E.

Mass Transfer Operations For The Practicing Engineer

L Cohen



Mass Transfer Operations For The Practicing Engineer:

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

Heat Transfer Applications for the Practicing Engineer Louis Theodore, 2011-11-01 This book serves as a training tool for individuals in industry and academia involved with heat transfer applications Although the literature is inundated with texts emphasizing theory and theoretical derivations the goal of this book is to present the subject of heat transfer from a strictly pragmatic point of view The book is divided into four Parts Introduction Principles Equipment Design Procedures and Applications and ABET related Topics The first Part provides a series of chapters concerned with introductory topics that are required when solving most engineering problems including those in heat transfer The second Part of the book is concerned with heat transfer principles Topics that receive treatment include Steady state Heat Conduction Unsteady state Heat Conduction Forced Convection Free Convection Radiation Boiling and Condensation and Cryogenics Part three considered the heart of the book addresses heat transfer equipment design procedures and applications In addition to providing a detailed treatment of the various types of heat exchangers this part also examines the impact of entropy calculations on exchanger design and operation maintenance and inspection OM I plus refractory and insulation effects The concluding Part of the text examines ABET Accreditation Board for Engineering and Technology related topics of concern including economics and finance numerical methods open ended problems ethics environmental management and safety and accident management

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home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

Mass-transfer Operations Robert E. Treybal,1988 **Mass-transfer Operations** Robert Ewald Treybal,1980 *Unit Operations in Environmental Engineering* Louis Theodore,R. Ryan Dupont,Kumar Ganesan,2017-08-29 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich s 1961 classic work *Unit Operations in Sanitary Engineering* The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations the goal of this book is to present the subject from a strictly pragmatic introductory point of view particularly for those individuals involved with environmental engineering This book is concerned with unit operations fluid flow heat transfer and mass transfer Unit operations by definition are physical processes although there are some that include chemical and biological reactions The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment This is a definitive work on Unit Operations one of the most important subjects in environmental engineering today It is an excellent reference well written easily read and comprehensive I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering Bottom line A must for any technical library Kenneth J Skipka CCM

Chemical Reactor Analysis and Applications for the Practicing Engineer Louis Theodore,2012-09-11 This books format follows an applications oriented text and serves as a training tool for individuals in education and industry involved directly or indirectly with chemical reactors It addresses both technical and calculational problems in this field While this text can be complimented with texts on chemical kinetics and or reactor design it also stands alone as a self teaching aid The first part serves as an introduction to the subject title and contains chapters dealing with history process variables basic operations kinetic principles and conversion variables The second part of the book addresses traditional reactor analysis chapter topics include batch CSTRs tubular flow reactors plus a comparison of these classes of reactors Part 3 keys on reactor applications that include non ideal reactors thermal effects interpretation of kinetic data and reactor design The book concludes with other reactor topics chapter titles include catalysis catalytic reactors other reactions and reactors and ABET related topics An extensive Appendix is also included

Mass-transfer Operations Robert Ewald Treybal,1967 [Principles and Modern Applications of Mass Transfer Operations](#) Jaime Benitez,2016-12-16 A staple in any chemical engineering curriculum New edition has a stronger emphasis on membrane separations chromatography and other adsorptive processes ion exchange Discusses many developing topics in more depth in mass transfer operations especially in the biological engineering area Covers in more

detail phase equilibrium since distillation calculations are completely dependent on this principle Integrates computational software and problems using Mathcad Features 25 30 problems per chapter

Handbook of Heat and Mass Transfer: Mass transfer and reactor design Nicholas P. Cheremisinoff,1986 [Handbook of Heat and Mass Transfer](#) Nicholas P. Cheremisinoff,1986 [Transport Phenomena and Unit Operations](#) Richard G. Griskey,2005-01-14 The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels Now Transport Phenomena and Unit Operations A Combined Approach endeavors not only to introduce the fundamentals of the discipline to a broader undergraduate level audience but also to apply itself to the concerns of practicing engineers as they design analyze and construct industrial equipment Richard Griskey s innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment While the latter was an academic precursor to the former undergraduate students are often exposed to one at the expense of the other Transport Phenomena and Unit Operations bridges the gap between theory and practice with a focus on advancing the concept of the engineer as practitioner Chapters in this comprehensive volume include Transport Processes and Coefficients Frictional Flow in Conduits Free and Forced Convective Heat Transfer Heat Exchangers Mass Transfer Molecular Diffusion Equilibrium Staged Operations Mechanical Separations Each chapter contains a set of comprehensive problem sets with real world quantitative data affording students the opportunity to test their knowledge in practical situations Transport Phenomena and Unit Operations is an ideal text for undergraduate engineering students as well as for engineering professionals *Cornell Engineer* ,1955-10 [AICHEMI Modular Instruction](#) American Institute of Chemical Engineers,1984 **AICHEMI Modular Instruction** ,1986 *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

Mechanical Engineering American Society of Mechanical Engineers,1947

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