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completely rewritten to enhance clarity this third edition provides engineers with a strong understanding of the field with the help of an additional co author the text presents new information on bioseparations throughout the chapters a new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis boxes help highlight fundamental equations numerous new examples and exercises are integrated

throughout as well in addition frequent references are made to the software products and simulators that will help engineers find the solutions they need

this book examines rate based and equilibrium based approaches to separation operations it describes the fundamentals of all separation operations of commercial interest and includes theory and application examples in each chapter as well as over 600 exercises

separation process principles with applications using process simulator 4th edition is the most comprehensive and up to date treatment of the major separation operations in the chemical industry the 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice completely rewritten to enhance clarity this fourth edition provides engineers with a strong understanding of the field with the help of an additional co author the text presents new information on bioseparations throughout the chapters a new chapter on mechanical separations covers settling filtration and centrifugation including mechanical separations in biotechnology and cell lysis boxes help highlight fundamental equations numerous new examples and exercises are integrated throughout as well

separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry knowledge of these processes is key for every student of chemical or process engineering and makes this book with its wealth of exercises and solutions ideally suited to university teaching the third edition boasts an even greater number of applied examples and updated chapters on drying adsorption and membranes

this book summarizes the available information in six known areas of reactive separation reaction distillation reaction extraction reaction absorption reaction adsorption reaction membrane and reaction crystallization

this book reviews methods and techniques for separating food components and products of the biotechnology industry the introduction focuses on food composition and some of the conventional separation techniques subsequent chapters deal with each specific type or area of application individually and include information on the basic principles industrial equipment available commercial applications and an overview of research and development

this much needed book presents a clear and very practice oriented overview of thermal separation processes an extensive introduction elucidates the physical and physicochemical fundamentals of different unit operations used to separate homogenous mixtures this is followed by a concise text with numerous explanatory figures and tables referring to process and design flowsheets basic engineering and examples of separation process applications very helpful guidance in the form of process descriptions calculation models and operation data is presented in an easy to understand manner thereby assisting the practicing engineer in the choosing and evaluation of separation processes and facilitating the modeling and design of innovative equipment a comprehensive reference list provides further opportunity for the following up of special separation problems chemical and mechanical

engineers chemists physicists and biotechnologists in research and development plant design and environmental protection as well as students in chemical engineering and natural sciences will find this all embracing reference guide of tremendous value and practical use

chemical engineering computation with matlab second edition continues to present basic to advanced levels of problem solving techniques using matlab as the computation environment the second edition provides even more examples and problems extracted from core chemical engineering subject areas and all code is updated to matlab version 2020 it also includes a new chapter on computational intelligence and offers exercises and extensive problem solving instruction and solutions for various problems features solutions developed using fundamental principles to construct mathematical models and an equation oriented approach to generate numerical results delivers a wealth of examples to demonstrate the implementation of various problem solving approaches and methodologies for problem formulation problem solving analysis and presentation as well as visualization and documentation of results includes an appendix offering an introduction to matlab for readers unfamiliar with the program which will allow them to write their own matlab programs and follow the examples in the book provides aid with advanced problems that are often encountered in graduate research and industrial operations such as nonlinear regression parameter estimation in differential systems two point boundary value problems and partial differential equations and optimization this essential textbook readies engineering students researchers and professionals to be proficient in the use of matlab to solve sophisticated real world problems within the interdisciplinary field of chemical engineering the text features a solutions manual lecture slides and matlab program files

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

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 indus try 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

economic needs as well as ecological demands are major driving forces in improving chemical processes and plants to meet these goals processes have to be intensified in order to get products of higher quality to increase yield by reducing or even suppressing by products and to minimise energy consumption a preferred principle for such intensifications is process tegration especially integration of reaction and separation operations s entific research in this field has been boosted by certain extremely succe ful examples like the eastman kodak process for methyl acetate or the mtbe process which are milestones for this method in 2002 the german research foundation defined process integration as one of the major search topics for the next decade in 1998 the department of biochemical and chemical engineering at the university of dortmund decided to pool its activities for concerted forts in process integration and to form a joint research cluster our interest was to find out the general challenges as well as obstacles of integrated processes and to work out methods for their design and valuation soon it became clear that theoretical work only cannot give reasonable answers

the comprehensive unified up to date guide to transport and separation processes today chemical engineering professionals need a thorough understanding of momentum heat and mass transfer processes as well as separation processes transport processes and separation process principles fourth edition offers a unified and up to date treatment of all these topics thoroughly updated to reflect the field s latest methods and applications it covers both fundamental principles and practical applications part 1 covers the essential principles underlying transport processes momentum transfer steady state and unsteady state heat transfer and mass transfer including both unsteady state and convective mass transfer part 2 covers key separation processes including evaporation drying humidification absorption distillation adsorption ion exchange extraction leaching crystallization dialysis gas membrane separation reverse osmosis filtration ultrafiltration microfiltration settling centrifugal separation and more this edition s extensive updates and enhancements include a more thorough coverage of momentum heat and mass transport processes detailed new coverage of separation process applications greatly expanded coverage of momentum transfer including fluidized beds and non newtonian fluids more detailed discussions of mass transfer absorption distillation liquid liquid extraction and crystallization extensive new coverage of membrane separation processes and gas membrane theory transport processes and separation process principles fourth edition also features more than 240 example problems and over 550 homework problems reflecting the field s current methods and applications

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