



ABSORPTION

**fundamentals
& applications**

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ANDRZEJ CHACUK

PERGAMON PRESS

Absorption Fundamentals And Applications

Camilla Rothe



Absorption Fundamentals And Applications:

Absorption R. Zarzycki, A. Chacuk, 2013-10-22 This book gives a practical account of the modern theory of calculation of absorbers for binary and multicomponent physical absorption and absorption with simultaneous chemical reaction The book consists of two parts the theory of absorption and the calculation of absorbers Part I covers basic knowledge on diffusion and the theory of mass transfer in binary and multicomponent systems Significant stress is laid on diffusion theory because this forms the basis for the absorption process In the next chapters the fundamentals of simultaneous mass transfer and chemical reaction the theory of the desorption of gases from liquids and the formulation of differential mass balances are discussed Part II is devoted to the calculation of absorbers and the classification of absorbers The chapters present calculation methods for the basic types of absorber with a detailed analysis of the calculation methods for packed plate and bubble columns The authors illustrate the presented material with a large number of examples starting with simple ones for binary systems and ending with column calculation for multicomponent systems

[Handbook Of Nanobiomedical Research: Fundamentals, Applications And Recent Developments \(In 4 Volumes\)](#) Vladimir P Torchilin, 2014-08-18 This book consists of 4 volumes containing about 70 chapters covering all the major aspects of the growing area of nanomedicine Leading scientists from 15 countries cover all major areas of nanobiomedical research materials for nanomedicine application of nanomedicine in therapy of various diseases use of nanomedicines for diagnostic purposes technology of nanomedicines and new trends in nanobiomedical research This is the first detailed handbook specifically addressing various aspects of nanobiomedicine Readers are treated to cutting edge research and the newest data from leading researchers in this area

OECD Papers, 2004 A compilation of reports previously issued by the OECD

[In Vitro Percutaneous Absorption](#) Robert L. Bronaugh, Howard I. Maibach, 2023-06-14 This book covers all major areas of interest in the rapidly expanding field of in vitro methods for percutaneous absorption studies Specific areas discussed include diffusion cell design receptor fluid preparation of skin and temperature The book covers experimental methodology as well as the underlying principles and fundamentals that help professionals and students gain an understanding of the basis for currently used methodology

In Vitro Percutaneous Absorption; Principles, Fundamentals, and Applications RL. Bronaugh, 1991

Spinel and Inverse Spinel Ferrites Naveen Kumar, Nupur Aggarwal, Anjana Sharma, 2025-05-20 This comprehensive book explores spinel and inverse spinel ferrites focusing on their synthesis methods structural characteristics magnetic properties and diverse applications It offers a valuable resource for understanding how these materials are transforming fields such as electronics energy conversion sensing biomedicine agriculture and environmental management The book provides practical insights into synthesis methods fabrication techniques and the scale up processes required to move these materials toward commercial applications With a focus on recent advancements such as nanoscale engineering and surface modifications the book offers readers insights into the commercial and practical potential of these materials across various industries Delivers practical

guidance on the synthesis fabrication and scale up of these materials addressing their commercialization prospects Examines the role of spinel and inverse spinel ferrites in magnetic resonance imaging MRI exploring their applications in medical diagnostics and treatment Discusses their effectiveness in electromagnetic interference EMI shielding emphasizing the importance of ferrites in electronic and telecommunication devices Provides insights into the application of ferrites as sensors with a focus on their use in gas sensing biosensing and other diagnostic tools Highlights photocatalytic activity and environmental remediation showcasing how these materials help in pollution control water purification and sustainable energy solutions This reference book is for students researchers and professionals in physics materials science and engineering who wish to deepen their understanding of spinel and inverse spinel ferrites and their interdisciplinary applications

Separation Process Engineering Phillip C. Wankat, 2012 The Definitive Fully Updated Guide to Separation Process Engineering Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering Third Edition is the most comprehensive accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today's leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author's Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

[Perry's Chemical Engineers' Handbook, 9th Edition](#) Don W. Green, Marylee Z. Southard, 2018-07-13 Up to Date Coverage of All Chemical Engineering Topics from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition this industry standard resource has equipped generations of engineers and chemists with vital information data and insights Thoroughly revised to reflect the latest technological advances and processes Perry's Chemical Engineers Handbook Ninth Edition

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