

Mass Transfer and Kinetics of Ion Exchange

edited by

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Mab Transfer And Kinetics Of Ion Exchange

Pavel Nesterenko, Colin Poole, Yan Sun



Mass Transfer And Kinetics Of Ion Exchange:

Mass Transfer and Kinetics of Ion Exchange L. Liberti, F.G. Helfferich, 2012-12-06 While ion exchange processes were originally used for the treatment of very dilute solutions many applications for the treatment of concentrated solutions have been developed in recent years. In these situations the mass transfer bottlenecks are located in the solid rather than the liquid phase. Therefore the development of quantitative models for ion exchange kinetics requires knowledge about the conductance characteristics of ions and solvent in the solid phase. A useful approach towards this aim is the study of transport characteristics of these species and of their interactions in solid ion exchange membranes. Many different transport processes and related phenomena can be observed in membrane solution systems e.g. ion migration, electroosmosis, diffusion, self-diffusion, osmosis, hydraulic flow, hyperfiltration, reverse osmosis, or ultrafiltration, streaming potential and streaming current, and membrane potentials also called membrane concentration potentials. It is important to correlate all these phenomena so as to avoid a very large number of unnecessary measurements. Such correlation is often possible (Meares 1976) since all these phenomena are determined by the ease of migration of the different species across the membrane. Important correlations have been made and summarized even before high capacity ion exchange membranes became commercially available (Sollner 1950, 1971).

Fundamentals of Water Treatment Unit Processes David Hendricks, 2010-11-09 Carefully designed to balance coverage of theoretical and practical principles, *Fundamentals of Water Treatment Unit Processes* delineates the principles that support practice using the unit processes approach as the organizing concept. The author covers principles common to any kind of water treatment, for example drinking water, municipal wastewater, industrial water treatment, industrial waste water treatment, and hazardous wastes. Since technologies change but principles remain constant, the book identifies strands of theory rather than discusses the latest technologies, giving students a clear understanding of basic principles they can take forward in their studies. Reviewing the historical development of the field and highlighting key concepts for each unit process, each chapter follows a general format that consists of process description, history, theory, practice, problems, references, and a glossary. This organizational style facilitates finding sections of immediate interest without having to page through an excessive amount of material. Pedagogical Features: End of chapter glossaries provide a ready reference and add terms pertinent to topic but beyond the scope of the chapter. Sidebars sprinkled throughout the chapters present the lore and history of a topic, enlarging students' perspective. Example problems emphasize tradeoffs and scenarios rather than single answers and involve spreadsheets. Reference material includes several appendices and a quick reference spreadsheet. Solutions manual includes spreadsheets for problems. Supporting material is available for download. Understanding how the field arrived at its present state of the art places the technology in a more logical context and gives students a strong foundation in basic principles. This book does more than build technical proficiency; it adds insight and understanding to the broader aspects of water treatment unit processes.

Ion-Exchange Chromatography and Related

Techniques Pavel Nesterenko, Colin Poole, Yan Sun, 2023-11-15 Ion Exchange Chromatography and Related Techniques defines the current state of the art in ion exchange chromatography and related techniques and their implementation in laboratory and industrial practice This book provides a compact source of information to facilitate the transfer of knowledge and experience acquired by separation science specialists to colleagues from diverse backgrounds who need to acquire fundamental and practical information to facilitate progress in research and management functions reliant on information acquired by separation Individual chapters written by recognized experts lending credibility to the work will allow this book to serve as a high value reference source of current information for analytical and biopharmaceutical chemists Includes individual chapters written by recognized authoritative and visionary experts in the field to provide an overview and focused treatment of a single topic Presents comprehensive coverage of ion exchange techniques from theory to methods to selected applications for ions and biopolymers Provides Tables and diagrams with commonly used data to facilitate practical work comparison of results and decision making

Continuous Biopharmaceutical Processes David Pfister, Lucrèce Nicoud, Massimo Morbidelli, 2018-10-11 Provides a coherent and critical view on the potential benefits of various continuous processes in the biopharmaceutical industry

Protein Therapeutics Zuben E. Sauna, Chava Kimchi-Sarfaty, 2017-07-19 Medicinal chemistry is both science and art The science of medicinal chemistry offers mankind one of its best hopes for improving the quality of life The art of medicinal chemistry continues to challenge its practitioners with the need for both intuition and experience to discover new drugs Hence sharing the experience of drug research is uniquely beneficial to the field of medicinal chemistry Drug research requires interdisciplinary team work at the interface between chemistry biology and medicine Therefore the topic related series Topics in Medicinal Chemistry covers all relevant aspects of drug research e g pathobiochemistry of diseases identification and validation of emerging drug targets structural biology drugability of targets drug design approaches chemogenomics synthetic chemistry including combinatorial methods bioorganic chemistry natural compounds high throughput screening pharmacological in vitro and in vivo investigations drug receptor interactions on the molecular level structure activity relationships drug absorption distribution metabolism elimination toxicology and pharmacogenomics In general special volumes are edited by well known guest editors

Advances in Soil Science, 2012-12-06 The world needs for food and fiber continue to increase Population growth in the developing countries peaked at 2.4 percent a year in 1965 and has fallen to about 2.1 percent However in many developing countries almost half the people are under 15 years of age poised to enter their productive and reproductive years The challenges to produce enough food for this growing population will remain great Even more challenging is growing the food in the areas of greatest need Presently the world has great surpluses of food and fiber in some areas while there are devastating deficiencies in other areas Economic conditions and the lack of suitable infrastructure for distribution all too often limit the alleviation of hunger even when there are adequate supplies sometimes even within the country itself World hunger can only be solved in the long run

by increasing crop production in the areas where the population is growing most rapidly This will require increased efforts of both the developed and developing countries Much of the technology that is so successful for crop production in the developed countries cannot be utilized directly in the developing countries Many of the principles however can and must be adapted to the conditions both physical and economic of the developing countries This series Advances in Soil Science

Process Scale Purification of Antibodies Uwe Gottschalk,2011-09-20 Traditional column chromatography dominates current purification technology and many of the productivity gains that have been achieved have relied on upscaling such devices However this comes with a cost penalty and the pharmaceutical industry has reached the point at which further upscaling becomes economically unsupportable This book offers a broad based reassessment of old and new purification methods incorporating an analysis of innovative new trends in purification The book has wide coverage of different antibody purification strategies and brings together top tier experts to address problems in process scale antibody purification

Biopharmaceutical Processing Gunter Jagschies,Eva Lindskog,Karol Lacki,Parrish M. Galliher,2018-01-18 Biopharmaceutical Processing Development Design and Implementation of Manufacturing Processes covers bioprocessing from cell line development to bulk drug substances The methods and strategies described are essential learning for every scientist engineer or manager in the biopharmaceutical and vaccines industry The integrity of the bioprocess ultimately determines the quality of the product in the biotherapeutics arena and this book covers every stage including all technologies related to downstream purification and upstream processing fields Economic considerations are included throughout with recommendations for lowering costs and improving efficiencies Designed for quick reference and easy accessibility of facts calculations and guidelines this book is an essential tool for industrial scientists and managers in the biopharmaceutical industry Offers a comprehensive go to reference for daily work decisions Covers both upstream and downstream processes Includes case studies that emphasize financial outcomes Presents summaries decision grids graphs and overviews for quick reference

Issues in Analysis, Measurement, Monitoring, Imaging, and Remote Sensing Technology: 2013 Edition,2013-06-20 Issues in Analysis Measurement Monitoring Imaging and Remote Sensing Technology 2013 Edition is a ScholarlyEditions book that delivers timely authoritative and comprehensive information about Analysis and Measurement The editors have built Issues in Analysis Measurement Monitoring Imaging and Remote Sensing Technology 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Analysis and Measurement in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Analysis Measurement Monitoring Imaging and Remote Sensing Technology 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is

available at <http://www.ScholarlyEditions.com> **Preparative Chromatography for Separation of Proteins** Arne Staby, Anurag S. Rathore, Satinder Ahuja, 2017-03-06 *Preparative Chromatography for Separation of Proteins* addresses a wide range of modeling techniques strategies and case studies of industrial separation of proteins and peptides Covers broad aspects of preparative chromatography with a unique combination of academic and industrial perspectives Presents Combines modeling with compliance using of Quality by Design QbD approaches including modeling Features a variety of chromatographic case studies not readily accessible to the general public Represents an essential reference resource for academic industrial and pharmaceutical researchers Vaccine Development and Manufacturing Emily P. Wen, Ronald Ellis, Narahari S. Pujar, 2014-10-06 *Vaccine Manufacturing and Production* is an invaluable reference on how to produce a vaccine from beginning to end addressing all classes of vaccines from a processing production and regulatory viewpoint It will provide comprehensive information on the various fields involved in the production of vaccines from fermentation purification formulation to regulatory filing and facility designs In recent years there have been tremendous advances in all aspects of vaccine manufacturing Improved technology and growth media have been developed for the production of cell culture with high cell density or fermentation *Vaccine Manufacturing and Production* will serve as a reference on all aspects of vaccine production by providing an in depth description of the available technologies for making different types of vaccines and the current thinking in facility designs and supply issues This book will provide insight to the issues scientists face when producing a vaccine the steps that are involved and will serve as a reference tool regarding state of the art vaccine manufacturing technologies and facility set up Highlights include Comprehensive coverage of vaccine production from a process point of view fermentation to purification to formulation developments from a production point of view from facility design to manufacturing and from a regulatory point of view requirements from government agencies Authors from different major pharmaceutical and biotechnology companies Describes the challenges and issues involved in vaccine production and manufacturing of the different classes of vaccines an area not covered by other books currently on the market

Approaches to the Purification, Analysis and Characterization of Antibody-Based Therapeutics Allan Matte, 2020-08-20 *Approaches to the Purification Analysis and Characterization of Antibody Based Therapeutics* provides the interested and informed reader with an overview of current approaches strategies and considerations relating to the purification analytics and characterization of therapeutic antibodies and related molecules While there are obviously other books published in and around this subject area they seem to be either older c a year 2000 publication date or are more limited in scope The book will include an extensive bibliography of the published literature in the respective areas covered It is not however intended to be a how to methods book Covers the vital new area of R D on therapeutic antibodies Written by leading scientists and researchers Up to date coverage and includes a detailed bibliography **Nuclear Science Abstracts** ,1975 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre

dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1-33 initially created by DOE's predecessor the U.S. Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U.S. Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

Radiolabeled Monoclonal Antibodies for Imaging and Therapy Suresh C.

Srivastava, 2013-03-14 The advent of hybridoma technology leading to the successful production of monoclonal antibodies against a variety of tumor associated antigens has during the last decade provided a very powerful tool for research and clinical investigations These highly specific reagents have essentially replaced the polysera of the earlier days The successful demonstration of the many wide ranging capabilities of the monoclonal antibody technique has already begun to exert an enormous impact on diverse areas of research in basic science and medicine In particular the potential of monoclonal antibodies to serve as carriers for selective targeting of radionuclides to tumors for diagnosis or therapy has stimulated an intense surge of research interest and even revived hopes of realizing Ehrlich's concept of the magic bullet Indeed the technology appears to be on the threshold of a revolution in diagnosing and treating malignant disease Much work remains to be done however and even though the progress has been impressive results to date have shown only moderate success There is no question that the limited success we have achieved thus far is merely a prelude to the many more exciting developments yet to come

Separation Methods in Drug Synthesis and Purification Klara Valko, 2020-06-19

Separation Methods in Drug Synthesis and Purification Second Edition Volume Eight provides an updated on the analytical techniques used in drug synthesis and purification Unlike other books on either separation science or drug synthesis this volume combines the two to explain the basic principles and comparisons of each separation technique New sections to this volume include enantiomer separation using capillary electrophoresis CE and capillary electro chromatography the computer simulation of chromatographic separation for accelerating method development the application of chromatography and capillary electrophoresis used as surrogates for biological processes and new developments in the established techniques of chromatography and preparative methods Features descriptions and applications of all separation methods used in the pharmaceutical industry Written by the leading scientists in their respective fields providing solutions for a wide range of industrial separation problems encountered within the pharmaceutical industry Thoroughly updated with brand new separation science techniques and the latest developments in the established techniques of chromatography

The FASEB Journal, 1991 Radioactive Waste Processing and Disposal U.S. Nuclear Regulatory Commission, 1980 Theoretical Foundations of Chemical Engineering, 1974 **Selected Water Resources Abstracts**, 1990 **Encyclopedia of Analytical Science**, 2019-04-02 The third edition of the Encyclopedia of Analytical Science Ten Volume Set is a definitive

collection of articles covering the latest technologies in application areas such as medicine environmental science food science and geology Meticulously organized clearly written and fully interdisciplinary the Encyclopedia of Analytical Science Ten Volume Set provides foundational knowledge across the scope of modern analytical chemistry linking fundamental topics with the latest methodologies Articles will cover three broad areas analytical techniques e g mass spectrometry liquid chromatography atomic spectrometry areas of application e g forensic environmental and clinical and analytes e g arsenic nucleic acids and polycyclic aromatic hydrocarbons providing a one stop resource for analytical scientists Offers readers a one stop resource with access to information across the entire scope of modern analytical science Presents articles split into three broad areas analytical techniques areas of application and and analytes creating an ideal resource for students researchers and professionals Provides concise and accessible information that is ideal for non specialists and readers from undergraduate levels and higher

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