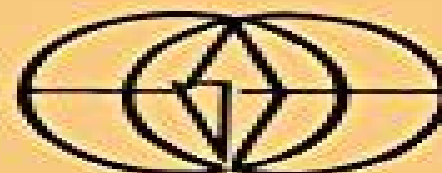


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Chitin and Chitosan Shameem Hasan, Veera M. Boddu, Dabir S. Viswanath, Tushar K. Ghosh, 2022-08-27 This book reviews work that covers everything from basic chemistry to advanced applications Chitin and chitosan are used in a plethora of applications from wastewater treatment to prosthetics After introducing the subject of polysaccharides as a whole the authors turn to the preparation of chitin and chitosan and the characterization of the latter The book provides information on chitin chemistry extraction of chitin chitosan preparation processes and the applications of their derivatives in various fields

Among the applications that are included in detail are the adsorption of heavy metals for pollution prevention and clean up biosensors cosmetics various medical applications from anti tumor activity to bone tissue engineering agriculture and food production and proton exchange membranes for fuel cells Chitin and Chitosan features information on molecular structure synthesis properties and latest research related to chitin and chitosan coverage of a wide range of topics from the properties of chitosan to its derivatives and applications in depth information on biomedical applications of chitin and chitosan and information that can be applied to other biopolymer processing engineering areas This book will be of interest to practitioners working in a wide variety of industries for which chitin and chitosan are useful materials researchers in biosensors and heavy metal adsorption and to academic researchers investigating the properties preparation and uses of these materials

Surface Science of Adsorbents and Nanoadsorbents Tawfik Abdo Saleh, 2022-09-15 Surface Science of Adsorbents and Nanoadsorbents Volume TBD Properties and Applications in Environmental Remediation presents a unique collection of timely information on the surface science of adsorbents and nanoadsorbents The book offers a perfect source to document developments and innovations ranging from materials development and characterization of properties to applications that encompass the enhancement of sorption degradation processes and their usage for the removal of different pollutants including heavy metals dyes and pesticides etc It is written for post graduate students scientists in academia and industry chemical engineers and water quality monitoring agencies working in water treatment efficient materials nanomaterials development and quality control Provides the theoretical and scientific foundation for understanding synthesis and applications in nano adsorbent material Presents numerous examples to help users gain an understanding of each subject Includes a variety of illustrations that further enhance the content [Albright's Chemical Engineering Handbook](#)

Lyle Albright, 2008-11-20 Taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering Albright s Chemical Engineering Handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations Well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties Each chapter provides a clear review of basic information case examples and references to additional more in depth information They explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering The final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers From fundamentals to plant operations Albright s Chemical Engineering Handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications This handbook will serve the needs of practicing professionals as well as students preparing to enter the field *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 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

Electrochemical Membrane Technology Adewale Giwa,2024-01-23 Electrochemical Membrane Technology will have a strong impact on electrochemical and membrane separation research in the future and will contribute significantly to academic training and the well being of human society This book will include a comprehensive discussion of SWOT analysis of each electrochemical membrane technology and the discussion of energy production from electrochemical membrane technologies in a separate chapter This will be based theoretical and experimental studies on electrochemical membrane technologies and applications Written for chemical and environmental engineers professors and other university teachers research scientists graduate students water treatment managers research institutions and Research and Development departments of industries involved in sustainable water treatment and coproduction of valuable products from water treatment technologies Provides comparative analysis of energy production from electrochemical membrane technologies and a comprehensive analysis of the recent advances in these technologies Discusses the strengths weaknesses opportunities and threats challenges SWOT of each electrochemical membrane technology Addresses the importance energy co production

Analysis, Synthesis and Design of Chemical Processes Richard Turton,Richard C. Bailie,Wallace B. Whiting,Joseph A. Shaeiwitz,2008-12-24 The Leading Integrated Chemical Process Design Guide Now with New Problems New Projects and More More than ever effective design is the focal point of sound chemical engineering Analysis Synthesis and Design of Chemical Processes Third Edition presents design as a creative process that integrates both the big picture and the small details and knows which to stress when and why Realistic from start to finish this book moves readers beyond classroom exercises into open ended real world process problem solving The authors introduce integrated techniques for

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Chemical Engineering Volume 2 J H Harker, J R Backhurst, J.F. Richardson, 2013-10-22 Chemical Engineering Volume 2 covers the properties of particulate systems including the character of individual particles and their behaviour in fluids Sedimentation of particles both singly and at high concentrations flow in packed and fluidised beds and filtration are then examined The latter part of the book deals with separation processes such as distillation and gas absorption which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1 In conclusion several techniques of growing importance adsorption ion exchange chromatographic and membrane separations and process intensification are described A logical progression of chemical engineering concepts volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross referenced Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book

Introduction to Fluid Flow and the Transfer of Heat and Mass A. T. Olson, K. A. Shelstad, 1987 Very Good No Highlights or Markup all pages are intact

Separation Process Engineering Phillip C. Wankat, 2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including

advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author s previous book Equilibrium Staged Separations Enhancements include improved organization extensive new coverage and more than 75% new homework problems all tested in the author s Purdue University classes Coverage includes Detailed problems with real data organized in a common format for easier understanding Modular simulation exercises that support courses taught with simulators without creating confusion in courses that do not use them Extensive new coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A detailed introduction to adsorption chromatography and ion exchange everything students need to understand advanced work in these areas Discussions of standard equilibrium stage processes including flash distillation continuous column distillation batch distillation absorption stripping and extraction The International Journal of Mechanical Engineering Education ,1986 *Applied Mechanics Reviews* ,1985 **Chemical Engineering Education** ,1994 Bioseparation and Bioprocessing, Volume I: Biochromatography - Membrane Separations - Modeling - Validation. Volume II: Processing - Quality and Characterisation - Economics, Safety and Hygiene Ganapathy Subramanian,G. Subramanian,1998 Rapid developments in biotechnology create a demand for practical up to date reviews written by and for experts in industry This compact handbook provides all relevant up to date information on important bioseparation and bioprocessing techniques that are actively applied in the biotechnology industries The handbook presents an applications orientated overview on case studies and general strategies for quality control and characterization detailed guidelines on developing economic and technically feasible bioseparation schemes strategies and methods for intracellular bioproduct release chromatographic and membrane downstream processes used in biotechnology applications of modern non invasive methods such as neural networks for on line estimation and control of fermentation variables on an industrial scale a practical commercially relevant guide to biosafety and many more aspects which are indispensable for present and future industrial success *First-order Partial Differential Equations: Theory and application of single equations* Hyun-Ku Rhee,Rutherford Aris,Neal Russell Amundson,1986 Transportvorgänge in der Verfahrenstechnik Matthias Kraume,2020-04-06 Transportvorgänge spielen eine berragende Rolle in verfahrenstechnischen Prozessen die in unterschiedlichen Industriezweigen speziell in der chemischen pharmazeutischen und der Lebensmittelindustrie sowie in der Biotechnologie die Basis der Produktherstellung bilden Das fundamentale Verständnis von Transportvorgängen ist eine unverzichtbare Voraussetzung für diejenigen die diese in technischen Prozessen umsetzen Dazu zählen vorrangig Ingenieure unterschiedlicher Fachdisziplinen technische Chemiker und Biotechnologen Als substantielle Ergänzung des Lehrbuchs Transportvorgänge in der Verfahrenstechnik wurde für die Lösungen der dortigen 200 Übungsaufgaben dieses Buch erstellt in dem die Lösungswege ausführlich erläutert werden Dies umfasst auch die Berechnung sämtlicher Zahlenwerte der Lösungen

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