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Mass Transfer Anthony L. Hines, Robert Nott Maddox, 1985 A thorough introduction to the fundamentals and applications of microscopic and macroscopic mass transfer Nuclear Wastewater Treatment by Adsorption Process Jianlong Wang, 2025-06-16 Nuclear Wastewater Treatment by Adsorption Process provides a comprehensive introduction to nuclear waste treatment from both theoretical and practical perspectives Sections explores research and development of adsorption processes in the field illustrates various adsorbents and their applications for wastewater treatment specifically for nuclear wastewater treatment and provides guidance for the selection and use of the adsorption kinetics and isotherm models as well as for future studies Intended for students researchers and engineers working in nuclear waste treatment adsorption separation water wastewater treatment and related industries this book is sure to be a welcomed resource Offers the most up to date information available on nuclear wastewater treatment Includes treatment of nuclear wastewater by adsorption processes Introduces various adsorbents including their preparation modification characterization assessment and regeneration Provides the theoretical basis and guiding methodology for the selection and use of adsorption kinetics and isotherm models Presents guidance for future studies 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 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

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Adsorption on Granular Activated Carbon Anaya Nance, 1991 *Process Improvement in Manufacturing, a Topical Conference*, 2002 **Polymer Processing** Donald G. Baird, Dimitris I. Collias, 2014-03-24 Fundamental concepts coupled with practical step by step guidance With its emphasis on core principles this text equips readers with the skills and knowledge to design the many processes needed to safely and successfully manufacture thermoplastic parts The first half of

the text sets forth the general theory and concepts underlying polymer processing such as the viscoelastic response of polymeric fluids and diffusion and mass transfer Next the text explores specific practical aspects of polymer processing including mixing extrusion dies and post die processing By addressing a broad range of design issues and methods the authors demonstrate how to solve most common processing problems This Second Edition of the highly acclaimed Polymer Processing has been thoroughly updated to reflect current polymer processing issues and practices New areas of coverage include Micro injection molding to produce objects weighing a fraction of a gram such as miniature gears and biomedical devices New chapter dedicated to the recycling of thermoplastics and the processing of renewable polymers Life cycle assessment a systematic method for determining whether recycling is appropriate and which form of recycling is optimal Rheology of polymers containing fibers Chapters feature problem sets enabling readers to assess and reinforce their knowledge as they progress through the text There are also special design problems throughout the text that reflect real world polymer processing issues A companion website features numerical subroutines as well as guidance for using MATLAB IMSL and Excel to solve the sample problems from the text By providing both underlying theory and practical step by step guidance Polymer Processing is recommended for students in chemical mechanical materials and polymer engineering

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