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Second Edition

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Albert A Gayle



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Ultrafiltration Handbook Munir Cheryan, 1986 *Microfiltration and Ultrafiltration* Leos J. Zeman, Andrew L. Zydney, 2017-11-22 Integrates knowledge on microfiltration and ultrification membrane chemistry and characterization methods with the engineering and economic aspects of device performance device and module design processes and applications The text provides a discussion of membrane fundamentals and an analytical framework for designing and developing new filtrations systems for a broad range of technologically important functions It offers information on membrane liquid precursors fractal and stochastic pore space analysis novel and advanced module designs and original process design calculations

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Third Edition Maik W. Jornitz, 2019-06-26 Since sterile filtration and purification steps are becoming more prevalent and critical within medicinal drug manufacturing the third edition of *Filtration and Purification in the Biopharmaceutical Industry* greatly expands its focus with extensive new material on the critical role of purification and advances in filtration science and technology. It provides state of the science information on all aspects of bioprocessing including the current methods, processes, technologies and equipment. It also covers industry standards and regulatory requirements for the pharmaceutical and biopharmaceutical industries. The book is an essential comprehensive source for all involved in filtration and purification practices, training and compliance. It describes such technologies as viral retentive filters, membrane chromatography, downstream processing, cell harvesting and sterile filtration. Features: Addresses recent biotechnology related processes and advanced technologies such as viral retentive filters, membrane chromatography, downstream processing, cell harvesting and sterile filtration of medium, buffer and end product. Presents detailed updates on the latest FDA and EMA regulatory requirements involving filtration and purification practices as well as discussions on best practices in filter integrity testing. Describes current industry quality standards and validation requirements and provides guidance for compliance not just from an end user perspective but also supplier requirement. It discusses the advantages of single use process technologies and the qualification needs. Sterilizing grade filtration qualification and process validation is presented in detail to gain the understanding of the regulatory needs. The book has been compiled by highly experienced contributors in the field of pharmaceutical and biopharmaceutical processing. Each specific topic has been thoroughly examined by a subject matter expert.

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Handbook for Cane-sugar Manufacturers and Their Chemists ,1929 **Ultrafiltration Membranes from a Polymer Blend** Ingrid Maria Wienk,1993 Milk Ultrafiltration Lisbeth Meunier-Goddik,1991 *Biotechnology: Bioprocessing* Hans-Jürgen Rehm,Gerald Reed,1993 Bioprocessing an exciting new engineering discipline It combines the development and optimization of biotechnological processes with effective strategies to recover and purify the desired products Safety as well as cost play an important role here This volume covers the immensely differentiated spectrum of techniques and operations of bioprocessing presented by the most competent experts in the field An overview of upstream and downstream processing is given fermentation and cell culture processes and the design of microbial fermenters are presented A closing group of chapters is dedicated to issues of process validation measurement and regulation Topics included are Industrial Cell Cultures Pharmaceutical Proteins Bioreactors Media and Air Sterilization Oxygen Transfer Scale Implications Fermentation Data Analysis Cell and Debris Removal Protein Purification Electrokinetic Separations Final Recovery Steps Process Validation **Encyclopedia of Food Science and Technology** ,1991 Encyclopedia of Food Science and Technology Yiu H. Hui,1992

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