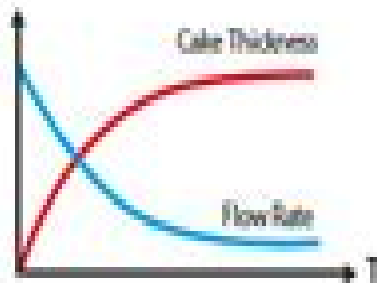


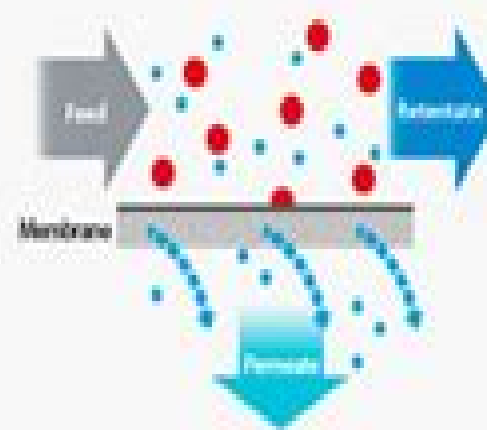
Traditional Dead-End Filtration



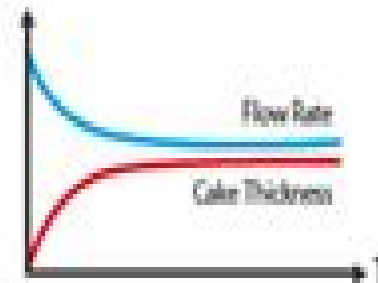
Membrane Blocked, Low Permeate Rate



Tangential Flow Filtration (TFF)



Less Membrane Blocked, High Permeate Rate



Comparison Of Diafiltration And Tangential Flow Filtration

Chao Zhang



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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

Validation of Pharmaceutical Processes James P. Agalloco, Frederick J. Carleton, 2007-09-25 Completely revised and updated to reflect the significant advances in pharmaceutical production and regulatory expectations this third edition of *Validation of Pharmaceutical Processes* examines and blueprints every step of the validation process needed to remain compliant and competitive The many chapters added to the prior compilation examine via

Genetic Engineering News, 2003 *Bioseparation and Bioprocessing: Processing, quality and characterization, economics, safety and hygiene* G. Subramanian, 1998 **Journal of Scientific and Industrial Research**, 2001

Cell Culture Engineering Wei-Shu Hu, Richard Biener, 2006-08-23 Since the introduction of recombinant human growth hormone and insulin a quarter century ago protein therapeutics has greatly broadened the horizon of health care Many patients suffering with life threatening diseases or chronic dysfunctions which were medically untreatable not long ago can attest to the wonder these drugs have achieved Although the first generation of protein therapeutics was produced in recombinant *Escherichia coli* most recent products use mammalian cells as production hosts Not long after the first production of recombinant proteins in *E. coli* it was realized that the complex tasks of most post translational modifications on proteins could only be efficiently carried out in mammalian cells In the 1990s we witnessed a rapid expansion of mammalian cell derived protein therapeutics chiefly antibodies In fact it has been nearly a decade since the market value of mammalian cell derived protein therapeutics surpassed that of those produced from *E. coli* A common characteristic of recent antibody

products is the relatively large dose required for effective therapy demanding larger quantities for the treatment of a given disease This coupled with the broadening repertoire of protein drugs has rapidly expanded the quantity needed for clinical applications The increasing demand for protein therapeutics has not been met exclusively by construction of new manufacturing plants and increasing total volume capacity More portantly the productivity of cell culture processes has been driven upward by an order of magnitude in the past decade

Chemical Engineering Progress ,2008 **Anticancer Research** ,1981 *Proceedings of the Indian National Science Academy* Indian National Science Academy,1970 *Proceedings* Indian National Science Academy,2004 **Microbiology Abstracts** ,1991 *Centrifugal Separations in Biotechnology* Wallace Woon-Fong Leung,2007-08-16 This book is the first devoted to centrifugal separation in biotechnology It is of value to professionals in the chemical bioprocess and biotech sectors and all those concerned with bioseparation bioprocessing unit operations and process engineering Key topics covered include a full introduction to centrifugation sedimentation and separation detailed coverage of centrifuge types including batch and semi batch centrifuges disk stack and tubular decanter centrifuges methods for increasing solids concentration laboratory and pilot testing of centrifuges selection and sizing centrifuges scale up of equipment performance prediction and analysis of test results using numerical simulation A comprehensive guide to centrifuges their optimal development and operation in the biotechnology industry Applications for the separation of proteins DNA mitochondria ribosomes lysosomes and other cellular elements Provides detailed process information and data to assist in the development of particular processes from existing systems Explores the commercial applications of centrifuges in biotechnology Guidance on troubleshooting and optimizing centrifuges *Genetic Engineering & Biotechnology News* ,2008 **Theoretical Chemical Engineering Abstracts** ,1984 Quality in Aquaculture N. Svennevig,Å Krogdahl,1995 *Ceramic Materials Research Trends* Paul B. Lin,2007 Ceramics are refractory inorganic and non metallic materials They can be divided into two classes traditional and advanced Traditional ceramics include clay products silicate glass and cement while advanced ceramics consist of carbides SiC pure oxides Al₂O₃ nitrides Si₃N₄ non silicate glasses and many others Ceramics offer many advantages compared to other materials They are harder and stiffer than steel more heat and corrosion resistant than metals or polymers less dense than most metals and their alloys and their raw materials are both plentiful and inexpensive Ceramic materials display a wide range of properties which facilitate their use in many different product areas This book presents new and important international research in this dynamic field

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