

CONTENTS

1. Development of a tomato juice concentration system by reverse osmosis	1
2. Membrane processes in must and wine treatment	17
3. Industrial application of ultrafiltration and hyperfiltration in the food and dairy industries	27
4. Fouling in whey reverse osmosis	37
5. Development of a cellulose acetate membrane and a module for hemofiltration	45
6. Pressure control of the ultrafiltration rate during hemodialysis with -high – flux dialyzers and the time dependence of membrane transport parameters	61
7. Ultrafiltration rates and rejection of solutes by cellulosic hollow fibers	75
8. Dialysis processing of cryopreserved blood cells	109
9. Effect of gel layer on rejection and fractionation of different – molecular – weight solutes by Ultrafiltration	119
10. Application of ultra- and hyperfiltration during production of enzymatically modified proteins	133
11. Separation wound tubular membrane elements in membrane assemblies production and application	193
12. Externally wound tubular membrane elements in modular assemblies: production and application	193
13. Membrane development, production, and use in hyperfiltration	207
14. Multiyear experience with oily and organic chemical waste treatment using reverse osmosis	221
15. A novel membrane system for the ultrafiltration of oil emulsions	237
16. Engineering aspects of the continuous membrane of oil emulsions	259
17. Chemically resistant asymmetric membranes made from PVA for the separation of organic solvents and phenols from aqueous solutions	281
18. Solute preferential sorption in reverse osmosis	293
19. Estimation of interracial forces governing the reverse – osmosis system: nonionized polar organic solute – water – cellulose acetate membrane	315
20. reverse– osmosis separations of alkali metal halides in methanol solutions using cellulose acetate membranes	339
21. Ultrafiltration and hyperfiltration in the pulp and paper industry for by-product recovery and energy savings	361
22. Pressure – independent Ultrafiltration – is it gel limited or osmotic pressure limited?	373
23. Polymer solute rejection of dynamic membranes	411
24. Recent application of dynamic membranes	435
25. Index	455