

# Contents

<b>Preface</b>	V
Orr JR, Dowling EF, Lindgren FT: The contribution of the analytical ultracentrifuge to the technology and development of lipoprotein research, 1948–1991.....	1
Schubert D, Schuck P: Analytical centrifugation as a tool for studying membrane proteins.....	12
Jaenicke R, Lehle K: Can sedimentation analysis contribute to the protein folding problem?.....	23
Behlke J, Knespel A, Glaser RW, Pleißner KP: Analysis of intra- and intermolecular interactions in some oxidases using an analytical ultracentrifuge.....	30
Bickhardt S, Ebert G, Nishi N, Hagiwara K: Sedimentation velocity analysis of the DNA-protamine interaction.....	36
Durchschlag H, Christl P, Jaenicke R: Comparative determination of the particle weight of glycoproteins by SDS-PAGE and analytical ultracentrifugation.....	41
Ortlepp B, Panke D: Analytical ultracentrifuges with multiplexer and video systems for measuring particle size and molecular mass distributions.....	57
Lechner MD, Mächtle W: A new procedure for the determination of the molar mass distribution of polymers in solution from sedimentation equilibrium.....	62
Müller HG, Schmidt A, Kranz D: Determination of the degree of swelling and crosslinking of latex particles by analytical ultracentrifugation.....	70
Streng K, Seifert A: Determination of coalescence stability of emulsions by analytical ultracentrifugation under separation of dispersed phase.....	76
Borchard W: Swelling pressure equilibrium of swollen crosslinked systems in an external field	
I. Theory.....	84
Holtus G, Cölfen H, Borchard W: Swelling pressure equilibrium of swollen crosslinked systems in an external field	
II. The determination of molecular parameters of gelatin/water gels from the swelling pressure-concentration curves.....	92
Cölfen H, Borchard W: Swelling pressure equilibrium of swollen crosslinked systems in an external field	
III. Unsolved problems concerning the systems gelatin/water and $\kappa$ -carrageenan/water.....	102
Mächtle W: Future requirements for modern analytical ultracentrifuges.....	111
<b>Author Index</b> .....	119
<b>Subject Index</b> .....	120