

Edited by David J Scott, Stephen E Harding and Arthur J Rowe

# Analytical Ultracentrifugation

## Techniques and Methods



RSC Publishing

**Title:** Analytical Ultracentrifugation: Techniques and Methods

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**Subject Classification:** Analytical Chemistry

**Readership:** This book is ideal for biochemists, biophysicists and polymer chemists with an interest in analytical ultracentrifugation.

**Level:** Research

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Analytical ultracentrifugation has become an increasingly important technique for monitoring the size and shape of biological macromolecules.

**Analytical Ultracentrifugation: Techniques and Methods** contains contributions from experts in the field, bringing together the multitude of developments that have taken place in instrumentation and analysis over the past decade into a single volume.

This book covers the latest methods in analysis along with an extensive introduction for the novice user. Analysis methods in both sedimentation velocity and sedimentation equilibrium are discussed at length. Protein, protein/DNA, membrane proteins and polymer systems are also explored, along with software developments and non-ideality.

**Contents:**

Introduction; Diffusion-deconvoluted Sedimentation Coefficient Distributions;

Models for Direct Boundary Fitting of Indefinite Ligand-Linked Self-Association; Thermodynamic Nonideality; Analytical ultracentrifugation of DNA; Lammnum (program); Correcting for the Buoyancy of Macromolecules; Density Increments and Apparent Partial Specific Volumes; Weighted Robust Regression; Synthetic Boundary Technique; Protein-DNA Interactions; UltraScan (program); Analysis of Polysaccharides; Applications in Structural Biology; Differential Sedimentation; Small Angle Scattering and Analytical Ultracentrifugation in Multidomain Proteins; Modelling of Biopolymers; Fitting of Thermodynamic Data from Equilibrium Ultracentrifugation; Analysis of Biopolymers; Analysis of Membrane Proteins; Solution Properties of Flexible Macromolecules; ELLIPS Algorithm Suite for Microsoft WINDOWS; Weak interactions; Analytical Ultracentrifugation of Colloids.

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