

BASIC PRINCIPLES OF ANALYTICAL ULTRACENTRIFUGATION



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Sedimentation Velocity Analytical Ultracentrifugation Peter Schuck, Huaying Zhao, 2017-09-22 Analytical ultracentrifugation is one of the most powerful solution techniques for the study of macromolecular interactions to define the number and stoichiometry of complexes formed and to measure affinities ranging from very strong to very weak and repulsive Building on the data analysis tools described in the volume Sedimentation Velocity Analytical Ultracentrifugation Discrete Species and Size Distributions of Macromolecules and Particles and the experimental and instrumental aspects in the first volume Basic Principles of Analytical Ultracentrifugation the present volume Sedimentation Velocity Analytical Ultracentrifugation Interacting Systems is devoted to the theory and practical data analysis of dynamically coupled sedimentation processes This volume is designed to fill a gap in biophysical methodology to provide a framework that builds on the fundamentals of the highly developed traditional methods of analytical ultracentrifugation updated with current methodology and from a viewpoint of modern applications It will be an invaluable resource for researchers and graduate students interested in the application of analytical ultracentrifugation in the study of interacting systems such as biological macromolecules multi protein complexes polymers or nanoparticles

Sedimentation Equilibrium Analytical Ultracentrifugation Peter Schuck, Rodolfo Ghirlando, 2019-08-26 A follow up to the experimental and instrumental aspects described in Basic Principles of Analytical Ultracentrifugation the volume Sedimentation Velocity Analytical Ultracentrifugation Discrete Species and Size Distributions of Macromolecules and Particles describes the theory and practice of data analysis Mathematical models for the sedimentation process and the evolution of detected signals are developed in a comprehensive framework jointly with the description of current and historical strategies for how to extract from noisy experimental data the physical parameters of interest such as size mass and shape composition and polydispersity of sedimenting particles The methods are extensively illustrated and supported with practical applications as well as cross references where to find the methods in the public domain software SEDFIT and SEDPHAT The systems covered are discrete or polydisperse mixtures of sedimenting molecules or particles in dilute solution such as proteins and other biomolecules and their stable complexes man made polymers and nanoparticles observed in different optical systems These methods form the essential foundation for the analysis of dynamic interacting systems which are covered in a separate volume *Analytical Ultracentrifugation*, 2015-09-24 Analytical Ultracentrifugation the latest volume in Methods in Enzymology focuses on analytical ultracentrifugation The scope of this technique has greatly expanded in recent years due to advances in instrumentation algorithms and software This volume describes the latest innovations in the field and in the applications of analytical ultracentrifugation in the analysis of macromolecules macromolecular assemblies and biopharmaceuticals Timely contribution that describes a rapidly changing field Leading researchers in the field Broad coverage instrumentation basic theory data analysis and applications **Analytical Ultracentrifugation VII** M. D. Lechner, Lars Börger, 2004-11-24 This volume includes 19 contributions to the 13th International Symposium on Analytical Ultracentrifugation which took place at the university of Osnabr ck on March 6th and 7th 2003 The contributions from leading scientists cover a broad spectrum of topics concerning Technical Methods Data Analysis Innovations Polymers Colloids Supramolecular Systems Biological and Interaction Systems Hydrodynamics and Modelling Due to the increasing significance of Analytical Ultracentrifugation for both scientific and technical applications this book will be an essential source of information with respect to recent developments and results related to this important analytical method

Analytical Ultracentrifugation Susumu Uchiyama, Fumio Arisaka, Walter F. Stafford, Tom Laue, 2016-05-13 This book introduces analytical ultracentrifugation AUC as a whole covering essential theoretical and practical aspects as well as its applications in both biological and non biological systems Comprehensive characterizations of macromolecules in a solution are now routinely required not only for understanding the solution system but also for producing a solution with better properties Analytical ultracentrifugation is one of most powerful and reliable techniques for studying the biophysical behavior of solutes in solution In the last few years there have been steady advances made in hardware software and applications for AUC This book provides chapters that cover everything essential for beginners to the most advanced users

and also offer updated knowledge of the field on advances in hardware software and applications Recent development of hardware described in this book covers new detection systems that give added dimensions to AUC Examples of data analysis with essential theoretical explanations for advanced and recently updated software are also introduced Besides AUC of biological systems including membrane proteins and biopharmaceuticals AUC applications for non biological questions are included AUC studies under non ideal conditions such as highly concentrated solutions and solutions with high salt concentration are also included The contributors to this book are leading researchers in the fields of solution biophysics and physical chemistry who extensively employ AUC analysis for their research From this published work one can gain new and comprehensive knowledge of recent AUC analysis Analytical Ultracentrifugation David Scott, Stephen E Harding, Arther Rowe, 2007-12-16 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 Analytical Ultracentrifugation V H. Cölfen, 2003-07-01 The basis for this volume is the 11th Symposium on Analytical Ultracentrifugation held in March 25 26 1999 at the University of Potsdam Germany This book presents a comprehensive collection of 33 contributions from leading scientists in this field including Technical and methodological innovations Innovations in data analysis Hydrodynamics Modelling Synthetic polymers colloids and supramolecular systems Biological systems Interacting systems and assemblies In contrast to the increasing significance of analytical ultracentrifugation related modern books are very rare Therefore this volume will be a helpful source of information to anyone who wants to catch up with the most recent developments and results related to this important analytical method

Analytical Ultracentrifugation VI W. Borchard, A. Straatmann, 2002-02-11 This volume includes 20 contributions of the 12th meeting on Analytical Ultracentrifugation from March 1 2 2001 in Duisburg Germany Various fields of ultracentrifugation are covered concerning research problems in biochemistry biophysical chemistry and macromolecular chemistry as well as interacting systems New investigations concerning the sedimentation theory are presented The phase transition of gels is dealt with as is the sedimentation diffusion equilibrium of gels One section contains the hydrodynamics of biopolymers Analytical Ultracentrifugation Symposium on Analytical Ultracentrifugation, 1995 Analytical Ultracentrifugation James L. Cole, 2012 Modern Analytical Ultracentrifugation Todd M. Schuster, Thomas M. Laue, 2012-12-06 There are numerous examples in the history of science when the parallel develop ments of two or more disciplines methodologies technologies or theoretical in sights have converged to produce significant scientific advances The

decades following the 1950s have produced several such significant advances as a result of a convergence of developments in molecular biology and in solid state based electronics instrumentation Since one of these areas of significant advancement analytical ultracentrifugation has been undergoing a renaissance we thought it would be a useful activity to call upon a group of researchers who have been developing either the experimental or theoretical aspects of the methodology and gather in one place a group of articles summarizing the current status of the field The success of recombinant DNA methodologies at producing biologically active macromolecules of commercial interest has evoked interests in mechanisms of function Pursuit of the related questions has emphasized the importance of studies of macromolecular binding and interaction Several contributions to this volume remind us that analytical ultracentrifugation is rigorously based on solid thermodynamic theory and as such is fully capable of providing comprehensive quantitative descriptions of molecular interactions in solution Furthermore a number of the chapters provide examples along with innovative methods for carrying out these characterizations The past decade has seen several developments that reflect the rebirth of interest in analytical ultracentrifugation

Analytical Ultracentrifugation IV Rainer Jaenicke, Helmut Durchschlag, 1997-11 This volume contains the contributions of the 10th Symposium on Analytical Ultracentrifugation held in Regensburg Germany on March 13th to 14th 1997 Topics in the following fields were presented Technical innovations innovations in data analysis modeling biological systems ions and polyelectrolytes polymers colloids supramolecular systems emulsions gels and dispersions interacting systems and assemblies

Progress in Analytical Ultracentrifugation W. Borchard, 2013-11-19

Analytical Ultracentrifugation VIII Christine Wandrey, Helmut Cölfen, 2010-02-12 The 14th International Symposium on Analytical Ultracentrifugation was held in March 2005 at the cole Polytechnique Fédérale de Lausanne in Switzerland This book presents a comprehensive collection of 21 contributions from leading scientists in this field covering a broad spectrum of topics and presenting recent progress concerning instrumentation data analysis and modeling biological systems particles colloids synthetic macromolecules interacting systems Analytical Ultracentrifugation is becoming increasingly important in both academic and industrial applications Due to the versatility of this fascinating and powerful technique information and original publications are widespread and comprehensive collections are rare Therefore this volume presents a valuable source for biologists chemists materials scientists and physicists interested in most recent information results and development related to this important analytical method

Analytical Ultracentrifugation of Polymers and Nanoparticles Walter Maechtle, Lars Börger, 2006-02-10 This book is divided into chapters covering instrumentation sedimentation velocity runs density gradient runs application examples and future developments In particular the detailed application chapter demonstrates the versatility and power of AUC by means of many interesting and important industrial examples Thus the book concentrates on practical aspects rather than details of centrifugation theory

Ultracentrifugation M.D. Lechner, 2013-11-19 Ultracentrifugation contains the proceedings of the VIII same named symposium held in 1993 at Osnabr

ck FRG The volume presents the current concepts in analytical ultracentrifugation AUC including biochemical and biophysical applications characterization of polyelectrolytes synthetic polymers gels and lattices modern fully computerized analytical ultracentrifuge Optima XL A future technical developments

Introduction to Analytical Ultracentrifugation Gregory B. Ralston, 1993

Modern Analytical Ultracentrifugation Todd M. Schuster, Thomas M. Laue, 1994-08-01

There are numerous examples in the history of science when the parallel developments of two or more disciplines methodologies technologies or theoretical insights have converged to produce significant scientific advances The decades following the 1950s have produced several such significant advances as a result of a convergence of developments in molecular biology and in solid state based electronics instrumentation Since one of these areas of significant advancement analytical ultracentrifugation has been undergoing a renaissance we thought it would be a useful activity to call upon a group of researchers who have been developing either the experimental or theoretical aspects of the methodology and gather in one place a group of articles summarizing the current status of the field The success of recombinant DNA methodologies at producing biologically active macromolecules of commercial interest has evoked interests in mechanisms of function Pursuit of the related questions has emphasized the importance of studies of macromolecular binding and interaction Several contributions to this volume remind us that analytical ultracentrifugation is rigorously based on solid thermodynamic theory and as such is fully capable of providing comprehensive quantitative descriptions of molecular interactions in solution Furthermore a number of the chapters provide examples along with innovative methods for carrying out these characterizations The past decade has seen several developments that reflect the rebirth of interest in analytical ultracentrifugation

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