

Springer Laboratory
Manuals in Polymer Science

Harald Pasch
Bernd Trathnigg



Multidimensional HPLC of Polymers

 Springer

Multidimensional Hplc Of Polymers Springer Laboratory

Harald Pasch, Wolfgang Schrepp



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Multidimensional HPLC of Polymers Harald Pasch, Bernd Trathnigg, 2013-06-12 This book presents the principle ideas of combining different analytical techniques in multi dimensional analysis schemes It reviews the basic principles and instrumentation of multi dimensional chromatography and the hyphenation of liquid chromatography with selective spectroscopic detectors and presents experimental protocols for the analysis of complex polymers It is the consequent continuation of HPLC of Polymers from 1999 by the same authors Like its predecessor this book discusses the theoretical background equipment experimental procedures and applications for each separation technique but in contrast treats multi dimensional and coupled techniques Multidimensional HPLC of Polymers intends to review the state of the art in polymer chromatography and to summarize the developments in the field during the last 15 years With its tutorial and laboratory manual style it is written for beginners as well as for experienced chromatographers and will enable its readers polymer chemists physicists and material scientists as well as students of polymer and analytical sciences to optimize the experimental conditions for their specific separation problems

HPLC of Polymers Harald Pasch, Bernd Trathnigg, 2011-10-08 Polymers are mainly characterized by molar mass chemical composition functionality and architecture The determination of the complex structure of polymers by chromatographic and spectroscopic methods is one of the major concerns of polymer analysis and characterization This lab manual describes the experimental approach to the chromatographic analysis of polymers Different chromatographic methods their theoretical background equipment experimental procedures and applications are discussed The book will enable polymer chemists physicists and material scientists as well as students of macromolecular and analytical science to optimize chromatographic conditions for a specific separation problem Special emphasis is given to the description of applications for homo and copolymers and polymer blends

Applied Polymer Science Ulf W. Gedde, Mikael S. Hedenqvist, Minna Hakkarainen, Fritjof Nilsson, Oisik Das, 2021-10-29 This companion volume to Fundamental Polymer Science Gedde and Hedenqvist 2019 offers detailed insights from leading practitioners into experimental methods simulation and modelling mechanical and transport properties processing and sustainability issues Separate chapters are devoted to thermal analysis microscopy spectroscopy scattering methods and chromatography Special problems and pitfalls related to the study of polymers are addressed Careful editing for consistency and cross referencing among the chapters high quality graphics worked out examples and numerous references to the specialist literature make Applied Polymer Science an essential reference for advanced students and practicing chemists physicists and engineers who want to solve problems with the use of polymeric materials

Polymer Science: A Comprehensive Reference, 2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization

techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

The Encyclopedia of Polymer Science and Technology Herman Francis Mark, 2003 The third edition of this title presents state of the art in all areas of polymer science covering nanotechnology new imaging and analytical techniques

Encyclopedia of Polymer Science and Technology: v. 1. A to coatings, 2003

Characterization and Analysis of Polymers Wiley, 2008-02-08 Based on Wiley's renowned Encyclopedia of Polymer Science and Technology this book provides coverage of key methods of characterization of the physical and chemical

properties of polymers including atomic force microscopy chromatographic methods laser light scattering nuclear magnetic resonance and thermal analysis among others Written by prominent scholars from around the world this reference presents over twenty five self contained articles on the most used analytical techniques currently practiced in polymer science

HPLC Joel K. Swadesh,2000-12-21 Product specifications regulatory constraints and tight production schedules impose considerable pressures on separation scientists in industry The first edition of HPLC Practical and Industrial Applications helped eliminate the need for extensive library or laboratory research when confronting a problem an unfamiliar technique or work in a n **Liquid Chromatography** Salvatore Fanali,Bezhan Chankvetadze,Paul R. Haddad,Colin Poole,Marja-Liisa Riekkola,2023-04-20 Liquid Chromatography Fundamentals and Instrumentation Third Edition offers a single source of authoritative information on all aspects of the practice of modern liquid chromatography The book gives those working in academia and industry the opportunity to learn refresh and deepen their understanding of the field by covering basic and advanced theoretical concepts recognition mechanisms conventional and advanced instrumentation method development data analysis and more This third edition addresses new developments in the field with updated chapters from expert researchers The book is a valuable reference for research scientists teachers university students industry professionals in research and development and quality control managers Emphasizes the integration of chromatographic methods and sample preparation Provides important data related to complex matrices sample preparation and data handling Gives background information to facilitate the choice of LC sub technique and experimental conditions mobile and stationary phases detectors data processing and more Offers comprehensive updates to all chapters Includes new chapters on chiral recognition co solvents and mobile phase additives physicochemical measurements and identification and quantitation in mass spectrometry

Machine Learning and Artificial Intelligence in Chemical and Biological Sensing Jeong-Yeol Yoon,Chenxu Yu,2024-07-07 Machine learning ML has recently become popular in chemical and biological sensing applications ML is a subset of artificial intelligence AI and other AI techniques have been used in various chemical and biological sensing Machine Learning and Artificial Intelligence in Chemical and Biological Sensing covers the theoretical background and practical applications of various ML AI methods toward chemical and biological sensing No comprehensive reference text has been available previously to cover the wide breadth of this topic The Editors have written the first three chapters to firmly introduce the reader to fundamental ML theories that can be used for chemical biosensing The subsequent chapters then cover the practical applications with contributions by various experts in the field They show how ML and AI based techniques can provide solutions for 1 identifying and quantifying target molecules when specific receptors are unavailable 2 analyzing complex mixtures of target molecules such as gut microbiome and soil microbiome3 analyzing high throughput and high dimensional data such as drug screening molecular interaction and environmental toxicant analysis 4 analyzing complex data sets where fingerprinting approach is needed This book is written primarily for upper undergraduate students graduate

students research staff and faculty members at teaching and research universities and colleges who are working on chemical sensing biosensing analytical chemistry analytical biochemistry biomedical imaging medical diagnostics environmental monitoring and agricultural applications Presents the first comprehensive reference text on the use of ML and AI for chemical and biological sensing Provides a firm grounding in the fundamental theories on ML and AI before covering the practical applications with contributions by various experts in the field Includes a wide array of practical applications covered including E nose Raman SERS lens free imaging multi hyperspectral imaging NIR optical imaging receptor free biosensing paper microfluidics single molecule analysis in biomedicine in situ protein characterization microbial population dynamics and all in one sensor systems Applied and Environmental Microbiology ,1997 **Advanced Separation**

Techniques for Polyolefins Harald Pasch,Muhammad Imran Malik,2014-08-27 This Springer Laboratory volume introduces the reader to advanced techniques for the separation and fractionation of polyolefins It includes detailed information on experimental protocols and procedures addressing the experimental background of different polyolefin fractionation techniques in great detail The book summarizes important applications in all major fractionation methods with emphasis on multidimensional analytical approaches It comprises the most powerful modern techniques such as high temperature size exclusion chromatography HT SEC for molar mass analysis temperature rising elution fractionation TREF and crystallization analysis fractionation CRYSTAF for the analysis of chemical composition and branching high temperature two dimensional liquid chromatography HT 2D LC solvent and temperature gradient interaction chromatography SGIC and TGIC and crystallization elution fractionation CEF Beginners as well as experienced chromatographers will benefit from this concise introduction to a great variety in instrumentation separation procedures and applications With detailed descriptions of experimental approaches for the analysis of complex polyolefins the readers are offered a toolbox to solve simple as well as sophisticated separation tasks The book starts with an introduction into the molecular complexity of polyolefins the most widely used synthetic polymers with rapidly growing production capacities It systematically discusses crystallization based fractionation techniques including TREF CRYSTAF and CEF and column chromatographic techniques for molar mass chemical composition and microstructure as well as the combination of different fractionations in multidimensional experimental setups This book also includes basic information on the application of high temperature field flow fractionation

MALDI-TOF Mass Spectrometry of Synthetic Polymers Harald Pasch,Wolfgang Schrepp,2003-02-27 MALDI TOF mass spectrometry is one of the latest and most fascinating new developments in the analysis of organic compounds Originally developed for the analysis of biomolecules it has developed into one of the most powerful techniques for the characterization of synthetic polymers This book describes the fundamentals of the MALDI process and the technical features of MALDI TOF instrumentation It reviews the application of MALDI TOF for identification chemical and molar mass analysis of synthetic polymers With many examples the monograph examines experimental protocols for the determination of endgroups the

analysis of copolymers and additives and the coupling of liquid chromatography and MALDI TOF in detail *Polymer Analysis and Characterization*, 2014-03-12 **Polymer Fractionation** Frieder Francuskiwicz, 1994-08-30 Fractionation of polymers via solubility has been a well known method in polymer characterization for a long time The original object of analytical fractionations the determination of the molecular weight distribution is nowadays achieved more efficiently and conveniently by chromatographic methods However fractionation procedures which were developed in great diversity remain up to date and essential for obtaining preparative fractions with narrow distributions Such fractions are wanted increasingly for the investigation of true structure property relationships which are mostly influenced by distributions of molecular weight or other parameters such as branching or chemical composition Literature on the field of polymer fractionation is extensive and several reviews exist However there is a lack of systematically methodical instructions for carrying out of diverse fractionation procedures This volume represents an attempt to reduce this deficiency and is focussed on practical aspects of fractionation procedures This laboratory manual is intended for polymer chemists physicists and technicians for students of polymer science and skilled laboratory assistants all of whom are not dealing directly with fractionation but are in need of fractions to carry out further investigations **Polymer Analysis and Characterization** V. A. Bershtein, 1994-01-01 Polymer Analysis/Polymer Theory Akihiro Abe, Karel Dušek, Shiro Kobayashi, 2005-09-29 This series presents critical reviews of the present and future trends in polymer and biopolymer science including chemistry physical chemistry physics and materials science It is addressed to all scientists at universities and in industry who wish to keep abreast of advances in the topics covered Impact Factor Ranking Always number one in Polymer Science More information as well as the electronic version of the whole content available at www.springerlink.com *Chromatographic Characterization of Polymers* Theodore Provder, 1995 Presents an overview of the recent developments in the use of hyphenated multidimensional separation and detection techniques for the characterization of polymeric materials Reports on successful multidimensional chromatographic methods and multiple detector systems Includes an analysis of compositional heterogeneity in copolymers and blends **Polymer Characterisation** B.J. Hunt, M.I. James, 2012-12-06 Polymers continue to play an ever increasing role in the modern world In fact it is quite inconceivable to most people that we could ever have existed of the increased volume and variety of materials without them As a result currently available and the diversity of their application characterisation has become an essential requirement of industrial and academic laboratories involved with polymeric materials On the one hand requirements may come from polymer specialists involved in the design and synthesis of new materials who require a detailed understanding of the relationship between the precise molecular architecture and the properties of the polymer in order to improve its capabilities and range of applications On the other hand many analysts who are not polymer specialists are faced with the problems of analysing and testing a wide range of polymeric materials for quality control or material specification purposes We hope this book will be a useful reference for all scientists and technologists

industrial laboratories logists involved with polymers whether in academic and irrespective of their scientific discipline We have attempted to include in one volume all of the most important techniques Obviously it is not possible to do this in any great depth but we have encouraged the use of specific examples to illustrate the range of possibilities In addition numerous references are given to more detailed texts on specific subjects to direct the reader where appropriate The book is divided into II chapters *Gradient HPLC of Copolymers and Chromatographic Cross-Fractionation* Gottfried Glöckner, 2012-12-06

The problems involved in separating complex macromolecules require under standing not only the chromatographic process but also the physicochemical behavior of the solutes This sentence from the pen of Phyllis R Brown 1 University of Rhode Island can certainly be applied to synthetic copolymers whose structure is very complex indeed Thus it may be forgiven that a book on copolymer HPLC has been written not by a trained chromatographer but by someone from the polymer side The HPLC of synthetic polymers is often understood to mean only a synonym for size exclusion chromatography The latter method separates polymers according to the size of the macromolecules and enables the molecular weight distribution of a sample to be evaluated But as early as 1936 Mark and Saito attempted chromatographic fractionation of cellulose acetate on a charcoal like adsorbent made from blood HPLC adsorption chromatography was first applied to copolymer analysis by Teramachi et al in 1979 Since then another branch of polymer HPLC has arisen which has the capacity of separating copolymers by composition and enables the chemical composition distribution to be evaluated The technique requires a suitable elution program and is mainly carried out as gradient elution

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