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Harald Pasch
Muhammad Imran Malik

Advanced Separation Techniques for Polyolefins



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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

Encyclopedia of Renewable and Sustainable Materials, 2020-01-09 Encyclopedia of Renewable and Sustainable Materials Five Volume Set provides a comprehensive overview covering research and development on all aspects of renewable recyclable and sustainable materials The use of renewable and sustainable materials in building construction the automotive sector energy textiles and others can create markets for agricultural products and additional revenue streams for farmers as well as significantly reduce carbon dioxide CO₂ emissions manufacturing energy requirements manufacturing costs and waste This book provides researchers students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the development selection and use of construction and manufacturing materials Covers a broad range of topics not available elsewhere in one resource Arranged thematically for ease of navigation Discusses key features on processing use application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials

Engineered Materials Abstracts, 1989-07

Thermal Field-flow Fractionation of Polymers Guillaume Greyling, Harald Pasch, 2019 This book introduces the reader to thermal field flow fractionation and discusses its

advantages over the fundamental problems associated with traditional column based analytical techniques commonly used to characterize polymers and macromolecules The authors discuss the theoretical background equipment experimental procedures as well as the recent advances and applications of thermal field flow fractionation Complete with several practical examples and troubleshooting guidelines the book is written for beginners and experienced separation scientists alike and will enable its readers to optimize their experimental conditions for their specific separation needs and problems

Separation Techniques in Clinical Chemistry Hassan Y. Aboul-Enein, 2003-05-28 This reference examines innovations in separation science for improved sensitivity and cost efficiency increased speed higher sample throughput and lower solvent consumption in the assessment evaluation and validation of emerging drug compounds It investigates breakthroughs in sample pretreatment HPLC mass spectrometry capillary electrophoresis and therapeutic drug monitoring for improved productivity precision and safety in clinical chemistry biomedical analysis and forensic research From saliva hair and biological samples to illegal drugs and toxins *Separation Techniques in Clinical Chemistry* is a thorough single source guide for analytical organic pharmaceutical medicinal physical surface and colloid chemists and biochemists and upper level undergraduate and graduate students in these disciplines *Separation Methods In Microanalytical Systems* Jorg P.

Kutter, Yolanda Fintschenko, 2005-09-09 Focusing on what has been one of the driving forces behind the development of lab on a chip devices *Separation Methods in Microanalytical Systems* explores the implementation realization and operation of separation techniques and related complex workflows on microfabricated devices The book details the design manufacture and integration of diverse components needed to perform an entire analytical procedure on a single miniaturized device This volume is valuable reference for scientists and engineers anticipating the demand for function specific chemical separation systems in biomedical diagnostics environmental monitoring and drug discovery applications **Advances in Polymer**

Science, 1991 **Separation Techniques in Chemistry and Biochemistry** Roy A. Keller, 1967 *ENCYCLOPAEDIA OF ADVANCED SEPARATION TECHNIQUES IN CHEMICAL ENGINEERING (4 VOLUMES)*, 2015 **Separation Techniques in Chemistry and Biochemistry** Summer Symposium On Analytical Chemistry Staff, 1967

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