

1. Record Nr.	UNINA990003047970403321
Titolo	Diffusion of technologies and social behavior / Nebojsa Nakicenovic, Arnulf Grübler editors
Pubbl/distr/stampa	Berlin : Springer, 1991
ISBN	3-540-53846-1
Descrizione fisica	XXV, 591 p. : with 107 Fig. and 56 Tab. ; 24 cm
Disciplina	303.48
Locazione	SE
Collocazione	S G/1.4 NAK
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	[Conference sponsored by the International Institute for Applied Systems Analysis, Laxenburg, Austria, 14-16 June 1989]

2. Record Nr.	UNINA9910298463503321
Autore	Pasch Harald
Titolo	Advanced Separation Techniques for Polyolefins // by Harald Pasch, Muhammad Imran Malik
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-08632-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XII, 179 p. 121 illus., 44 illus. in color.)
Collana	Springer Laboratory, Manuals in Polymer Science, , 2196-1174
Disciplina	540
Soggetti	Polymers Separation (Technology) Chemistry, Organic Separation Science Organic Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Part A Introduction -- Molecular Heterogeneity of Polyolefins -- Analytical Methods for Polyolefins -- Part B Crystallization-Based Fractionation Techniques -- Temperature Rising Elution Fractionation -- Crystallization Analysis Fractionation -- Crystallization Elution Fractionation -- Part C Column-Based Chromatographic Techniques -- Multidetector Size Exclusion Chromatography -- Solvent Gradient Interaction Chromatography -- Temperature Gradient Interaction Chromatography -- Two-Dimensional Liquid Chromatography -- Part D Field-Flow Fractionation -- Fundamentals -- Application of Field-Flow Fractionation of Polyolefins -- Analysis of Polyolefins by Asymmetric Flow FFF -- Conclusions and Future Trends.
Sommario/riassunto	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.
