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| Autore | Pasch Harald |
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| Descrizione fisica | 1 online resource (290 p.) |
| Collana | Springer Laboratory : Manuals in Polymer Science |
| Altri autori (Persone) | TrathniggBernd |
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| Soggetti | Polymers - Analysis<br>High performance liquid chromatography<br>Chemistry<br>Analytical biochemistry |
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| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters and index. |
| Nota di contenuto | Introduction -- Theory of Polymer Chromatography -- Interactive Modes of Polymer Chromatography -- Equipment and Materials -- Multidetector Size Exclusion Chromatography -- Two-Dimensional Liquid Chromatography -- Hyphenation of Polymer Chromatography with Information-Rich Detectors -- Polyolefin Analysis by Multidimensional Liquid Chromatography -- Conclusions and Future Trends. |
| Sommario/riassunto | 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.