Modern Size-Exclusion Liquid Chromatography: Practice of Gel Permeation and Gel Filtration Chromatography, 2nd Edition
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DESCRIPTION

The Second Edition of Modern Size-Exclusion Chromatography offers a complete guide to the theories, methods, and applications of size-exclusion chromatography. It provides an unparalleled, integrated, up-to-date treatment of gel permeation and gel filtration chromatography. With its detailed descriptions of techniques, data handling, compilations of information on columns and column packings, and tables of important solvents and reference materials, the book offers readers everything they need to take full advantage of this popular macromolecular characterization technique.

Since publication of the first edition in 1979, there have been many important advances in the field of size-exclusion chromatography. This Second Edition brings the book thoroughly up to date, with expert coverage of:

- New and emerging industrial and research applications
- Practical aspects of size-exclusion chromatography (SEC) and multidetector and multidimensional SEC technologies for polymer architecture and copolymer analysis
- Updated information on the latest equipment and techniques
- New best practices for the lab
- SEC in relation to polymer characterization techniques such as GPEC, LCCC, and rheology
Throughout the text, detailed examples guide you step by step through all the latest techniques and applications. With its extensive revisions and updates written by leading experts and pioneers in the field, Modern Size-Exclusion Liquid Chromatography remains the definitive resource for the broad range of researchers and scientists who use HPLC and GPC methods.

ABOUT THE AUTHOR

André M. Striegel, PhD, is Assistant Professor in the Department of Chemistry & Biochemistry at the Florida State University, with previous industrial R&D experience at Solutia. He has published and lectured extensively in the area of polymer chromatography and is the recipient of several national awards in analytical chemistry. WALLACE W. YAU, PhD, received his doctorate in physical chemistry from University of Massachusetts and is currently a scientist specialist at Dow Chemical Co., with past industrial experience at DuPont and Chevron. He has been in GPC research and polymer characterization for the past four decades. JOSEPH J. KIRKLAND, PhD, is author or coauthor of eight widely read books on liquid chromatography, more than 150 peer-reviewed papers, and thirty patents. With over fifty years of industrial experience, he has been the recipient of many major national and international awards in analytical chemistry. DONALD D. BLY, PhD, retired as manager of analytical science, central research, DuPont. He has remained working as a consultant to analytical and analytical-polymer science businesses and has remained active in the American Chemical Society and ASTM.

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