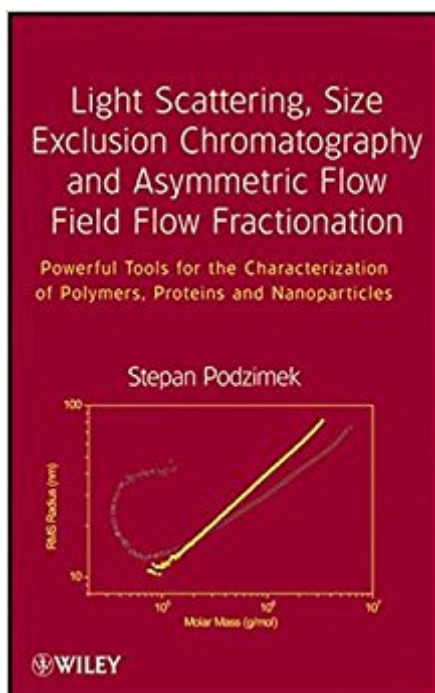


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# Light Scattering, Size Exclusion Chromatography And Asymmetric Flow Field Flow Fractionation: Powerful Tools For The Characterization Of Polymers, Proteins And Nanoparticles



## Synopsis

A comprehensive, practical approach to three powerful methods of polymer analysis and characterization. This book serves as a complete compendium of three important methods widely used for the characterization of synthetic and natural polymers—light scattering, size exclusion chromatography (SEC), and asymmetric flow field flow fractionation (A4F). Featuring numerous up-to-date examples of experimental results obtained by light scattering, SEC, and A4F measurements, *Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation* takes an all-in-one approach to deliver a complete and thorough explanation of the principles, theories, and instrumentation needed to characterize polymers from the viewpoint of their molar mass distribution, size, branching, and aggregation. This comprehensive resource: Is the only book gathering light scattering, size exclusion chromatography, and asymmetric flow field flow fractionation into a single text. Systematically compares results of size exclusion chromatography with results of asymmetric flow field flow fractionation, and how these two methods complement each other. Provides in-depth guidelines for reproducible and correct determination of molar mass and molecular size of polymers using SEC or A4F coupled with a multi-angle light scattering detector. Offers a detailed overview of the methodology, detection, and characterization of polymer branching. *Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation* should be of great interest to all those engaged in the polymer analysis and characterization in industrial and university research, as well as in manufacturing quality control laboratories. Both beginners and experienced can confidently rely on this volume to confirm their own understanding or to help interpret their results.

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## Customer Reviews

"The book is, essentially, quite readable and the abundance of figures will help the reader follow the discussions in the text. Most chapters, especially that on A4F, contain adequate references to the literature, including many to relatively recent publications." (Anal Bioanal Chem, 27 December 2011)

A comprehensive, practical approach to three powerful methods of polymer analysis and characterization This book serves as a complete compendium of three important methods widely used for the characterization of synthetic and natural polymers; light scattering, size exclusion chromatography (SEC), and asymmetric flow field flow fractionation (A4F). Featuring numerous up-to-date examples of experimental results obtained by light scattering, SEC, and A4F measurements, *Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation* takes an all-in-one approach to deliver a complete and thorough explanation of the principles, theories, and instrumentation needed to characterize polymers from the viewpoint of their molar mass distribution, size, branching, and aggregation. This comprehensive resource: Is the only book gathering light scattering, size exclusion chromatography, and asymmetric flow field flow fractionation into a single text Systematically compares results of size exclusion chromatography with results of asymmetric flow field flow fractionation, and how these two methods complement each other Provides in-depth guidelines for reproducible and correct determination of molar mass and molecular size of polymers using SEC or A4F coupled with a multi-angle light scattering detector Offers a detailed overview of the methodology, detection, and characterization of polymer branching *Light Scattering, Size Exclusion Chromatography and Asymmetric Flow Field Flow Fractionation* should be of great interest to all those engaged in the polymer analysis and characterization in industrial and university research, as well as in manufacturing quality control laboratories. Both beginners and experienced can confidently rely on this volume to confirm their own understanding or to help interpret their results.

A fantastic review and an enlightening read all in one book. This is filled with excellent examples of diverse applications. I have also followed several of the references listed in here to find even more information. Very very satisfied with this purchase.

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