



Mass Spectrometry of Polymers

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Mass Spectrometry (MS) has rapidly become an indispensable tool in polymer analysis, and modern MS today complements in many ways the structural data provided by Nuclear Magnetic Resonance (NMR) and Infrared (IR) methods. Recent advances have sparked a growing interest in this field and established a need for a summary of progress made and results achieved.

Mass Spectrometry of Polymers effectively fills this need. The discussion begins by introducing MS in detail, providing a historical perspective and a review of modern instrumentation and methods. The text then focuses on mathematical concepts and practical algorithms used in some of the major quantitative polymer applications of MS, providing a skillful prologue to polymer characterization techniques. Detailed chapters follow, describing the most relevant applications of MS to the analysis of polymers and the techniques currently employed.

Authored by internationally recognized experts from academia and industry, Mass Spectrometry of Polymers is the only state-of-the-art work available that deals systematically with this rapidly emerging discipline, and will be useful to both novices and experienced practitioners in polymer MS.

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Editorial Review

Review

"This book is currently the only state-of-the-art work available that systematically review this rapidly emerging discipline, and should be on the bookshelves for both novices and experienced academic and industrial scientists." - Weijie Lu, Department of Physics, Fisk University, Nashville Tennessee "As stated by the editors in the Preface, Mass Spectrometry of Polymers is meant as 'an effort to summarize the current status of the use of mass spectrometry in polymer characterization.' This work admirably achieves the stated goal, with a strong emphasis on the most recent literature describing technique developments and applications in the field of polymer mass spectrometry. The editors have gathered a strong team of contributing authors who are experts in the field of polymer mass spectrometry to contribute individual chapters to this book. Overall, [this] is an extremely practical book covering the state of the art in polymer mass spectrometry. The contributors and editors are to be commended for producing what is truly a tutorial possessing excellent examples and abundant references. In the Preface, the editors note that they 'trust that the book will be useful to both novices and experienced practitioners in polymer MS.' Unquestionably, they have achieved this objective. Mass Spectrometry of Polymers is highly recommended to anyone engaged in polymer science or in mass spectrometry of polymeric materials." -Journal of the American Society for Mass Spectrometry,

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