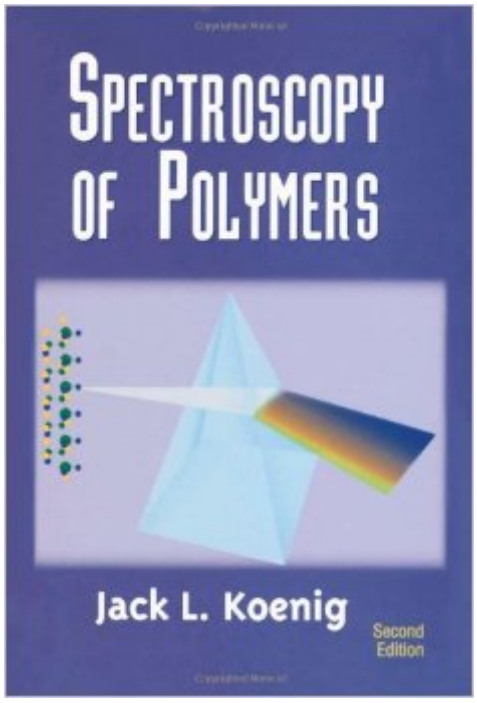
Spectroscopy Of Polymers, Second Edition



Synopsis

This revised and updated Second Edition of the best-selling reference/text is essential reading for students and scientists who seek a thorough and practical introduction to the field of polymer spectroscopy. Eleven chapters cover the fundamental aspects and experimental applications of the primary spectroscopic methods. The advantages and disadvantages of the various techniques for particular polymer systems are also discussed. The goal of the author is not to make the reader an expert in the field, but rather to provide enough information about the different spectroscopic methods that the reader can determine how the available techniques can be used to solve a particular polymer problem. This Second Edition contains new and updated information on techniques in IR and NMR, as well as an all-new chapter on Mass Spectrometry.

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Customer Reviews

Purists and theoreticians might not like this book, but I found it clear, practical, and a joy to read. This textbook describes all the common spectroscopic techniques used on polymers with a slant toward applications: why you'd use one technique instead of another, what the strengths and weaknesses of each technique are, and what you have to consider differently when working with polymers as opposed to small molecules. The theory is a bit light (usually there's just enough to describe how each technique works), but there are references to the literature if you need more theoretical depth. Perhaps best of all is Koenig's writing style, which makes even discussions of NMR pulse sequences fun to read (I had the pleasure of taking a course with Dr. Koenig before he

retired, and his dark sarcasm and anecdotes made a potentially numbing class quite enjoyable). If he could have generalized this book to include subjects other than polymers and plastics (e.g. biophysics and environmental chemistry), it would have become a classic.

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