



# Polymer Characterization: Physical Techniques, 2nd Edition

By Dan Campbell, Richard A. Pethrick, Jim R. White



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Discerning the properties of polymers and polymer-based materials requires a good understanding of characterization. This revised and updated text provides a comprehensive survey of characterization methods within its simple, concise chapters.

**Polymer Characterization: Physical Techniques**, provides an overview of a wide variety of characterization methods, which makes it an excellent textbook and reference. It starts with a description of basic polymer science, providing a solid foundation from which to understand the key physical characterization techniques. The authors explain physical principles without heavy theory and give special emphasis to the application of the techniques to polymers, with plenty of illustrations. Topics covered include molecular weight determination, molecular and structural characterization by spectroscopic techniques, morphology and structural characterization by microscopy and diffraction, and thermal analysis. This edition contains a new chapter on surface analysis as well as some revised problems and solutions.

The concise treatment of each topic offers even those with little prior knowledge of the subject an accessible source to relevant, simple descriptions in a well-organized format.



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