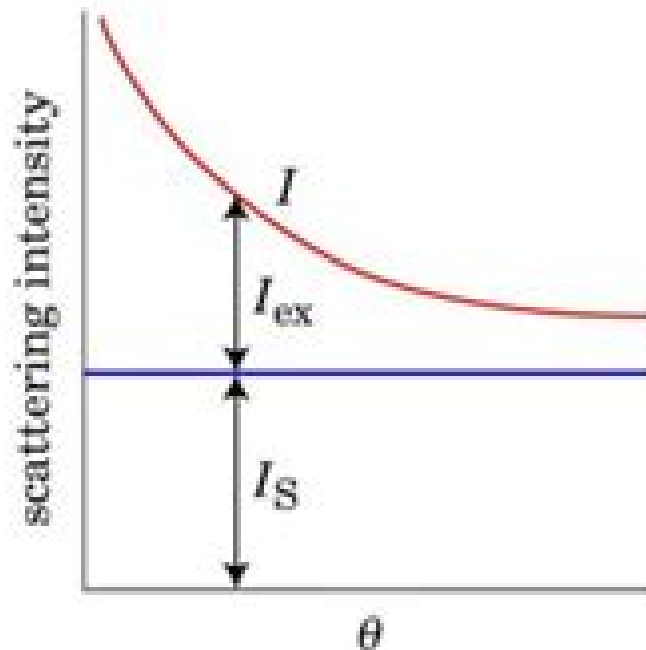


Light Scattering of Polymer Solutions

$$\frac{I_{\text{ex}}(k)}{I_0} = \frac{1}{N_A} \left(\frac{2\pi n}{\lambda^2} \frac{dn}{dc} \right)^2 \frac{cV}{r^2} P(k)$$



- Measure $I(k)$ for pure solvent.
- Measure $I(k)$ for solutions of a given polymer at different concentrations.
- Calculate $I_{\text{ex}}(k)$.

Light Scattering From Polymer Solutions

Peter Bosworth



Light Scattering From Polymer Solutions:

Classical Light Scattering from Polymer Solutions Pavel Kratochvíl, 1987 Classical light scattering from dilute polymer solutions is one of the few absolute rigorously founded methods for the determination of molar mass and molecular size of macromolecular substances and for the quantitative characterization of solute solvent interaction Light scattering is thus one of the most fundamental methods of the physical chemistry of polymers and the present book provides an introduction to this technique elements of practice and application of light scattering Although there are a number of advanced monographs and reviews currently available on light scattering from polymer solutions the appearance of this book marks the first introductory text of its kind Polymer chemists wishing to make a start in light scattering will find this book an indispensable aid in their work Light Scattering from Polymer Solutions and Nanoparticle Dispersions Wolfgang

Schärftl, 2007-08-02 Light scattering is a very powerful method for characterizing the structure of polymers and nanoparticles in solution As part of the Springer Laboratory series this book provides a simple to read and illustrative textbook probing the seemingly very complicated topic of light scattering from polymers and nanoparticles in dilute solution and goes further to cover some of the latest technical developments in experimental light scattering **Light Scattering from Polymer**

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 - Chapter 4: Light Scattering From Polymer Solutions in Specific Contexts
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