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Between 1983 and 1985

Michael Rubinstein was a
post-doctoral fellow with E.
Helfand at AT&T Bell
Laboratories in Murray Hill,

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NJ where he started his research in polymer physics. In 1985 Michael Rubinstein joined Research Laboratories of Eastman Kodak Company in Rochester, NY where he worked for 10 years in different areas of polymer

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Thermodynamics of Mixtures

3. Polymer Solutions Outline

. Summary of Ideal Chains

Ideal chains: no

interactions between

monomers separated by many

bonds Mean square end-to-end

distance of ideal linear

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polymer R^2 Nb^2 Mean square
radius of gyration of ideal
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polymer size on environment/solvent conditions suggests a big role of interactions. • Ideal polymer has no interactions between monomers, except between neighbors along the chain. • Just like ideal gas

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