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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,  
NJ where he started his

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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  
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## 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

polymer  $R^2 = N b^2$  Mean square

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radius of gyration of ideal  
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- Strong dependence of  
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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 may have all sorts of

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rotations and vibrations in  
the molecule, but no  
interactions between  
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