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mean? POLYMER

PHYSICS meaning

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Rubinstein was a post-

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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 theory.

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Thermodynamics of

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Solutions Outline .

Summary of Ideal

Chains Ideal chains:

no interactions



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between monomers  
separated by many  
bonds Mean square  
end-to-end distance  
of ideal linear

polymer  $R^2 = Nb^2$

Mean square radius  
of gyration of ideal

linear polymer  $\frac{6}{5} R^2$

$\frac{3}{5} Nb^2$  ...

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•Strong

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dependence of 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 may have all sorts of rotations and

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