



**MATERIALS SCIENCE
& ENGINEERING**
TEXAS A&M UNIVERSITY

Introduction to Materials Science & Engineering

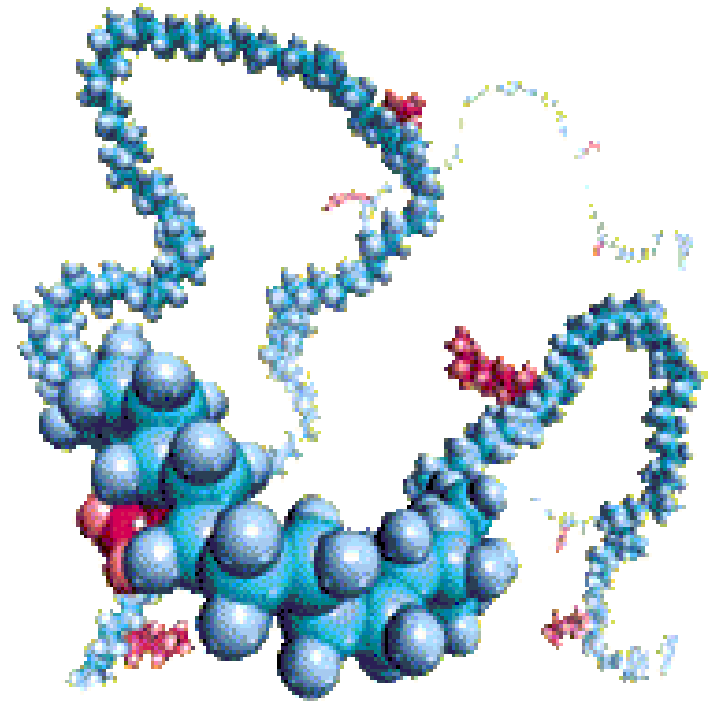
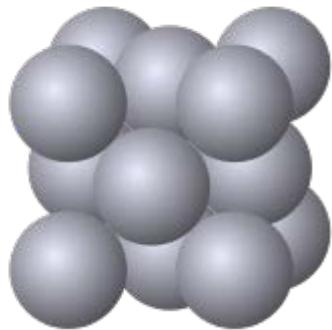
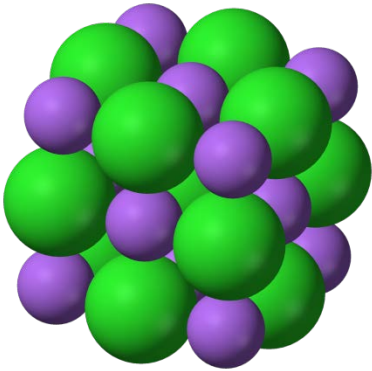
Structure of Polymers

Dr. Patrick Shamberger

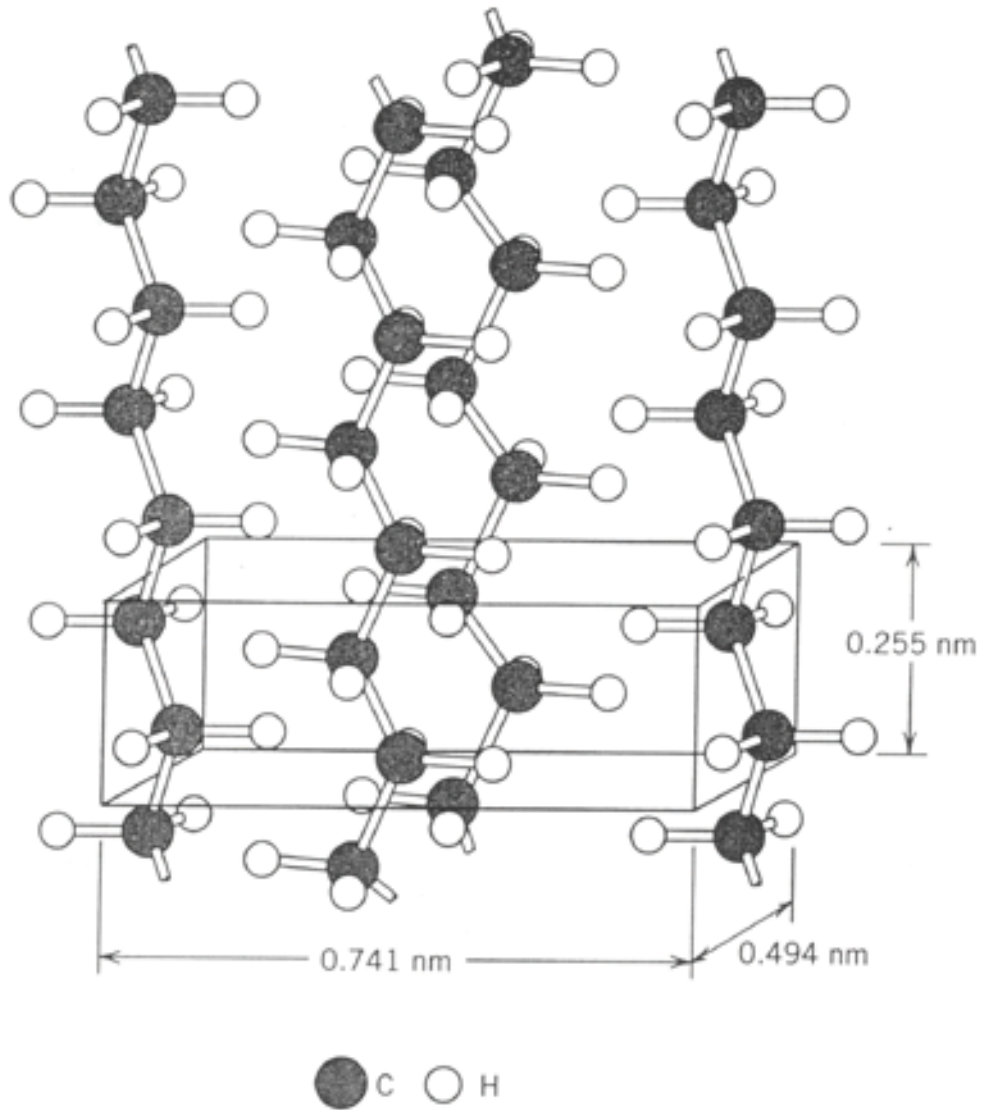
Dept. of Materials Science and Engineering
Dwight Look College of Engineering
Texas A&M University, College Station, TX



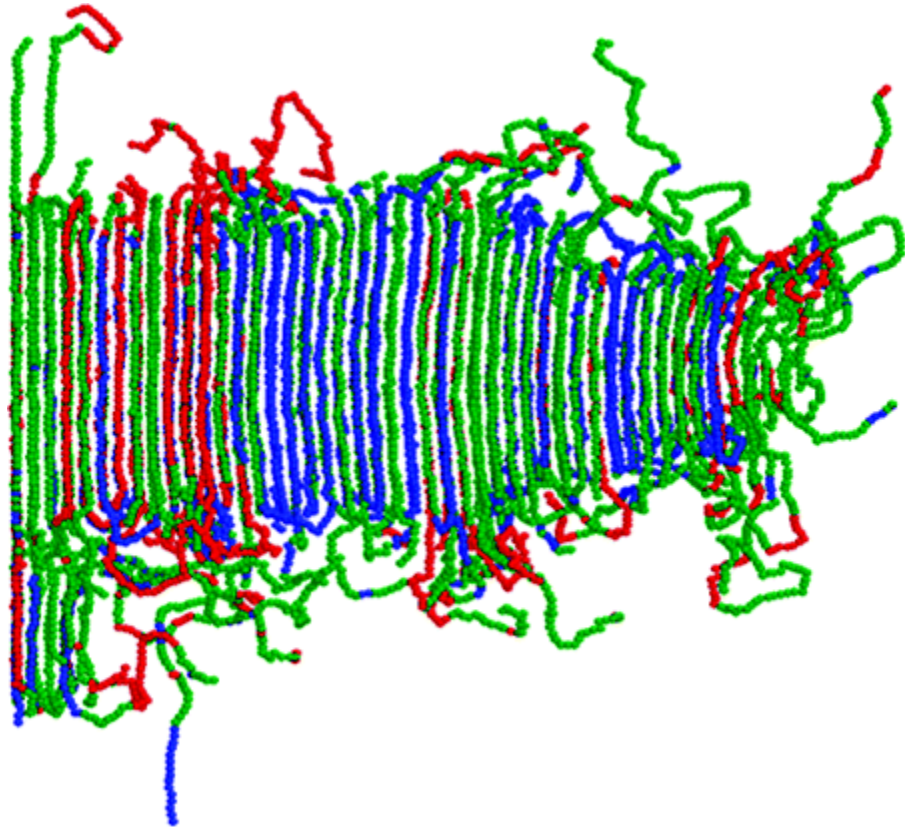
Polymer Structures



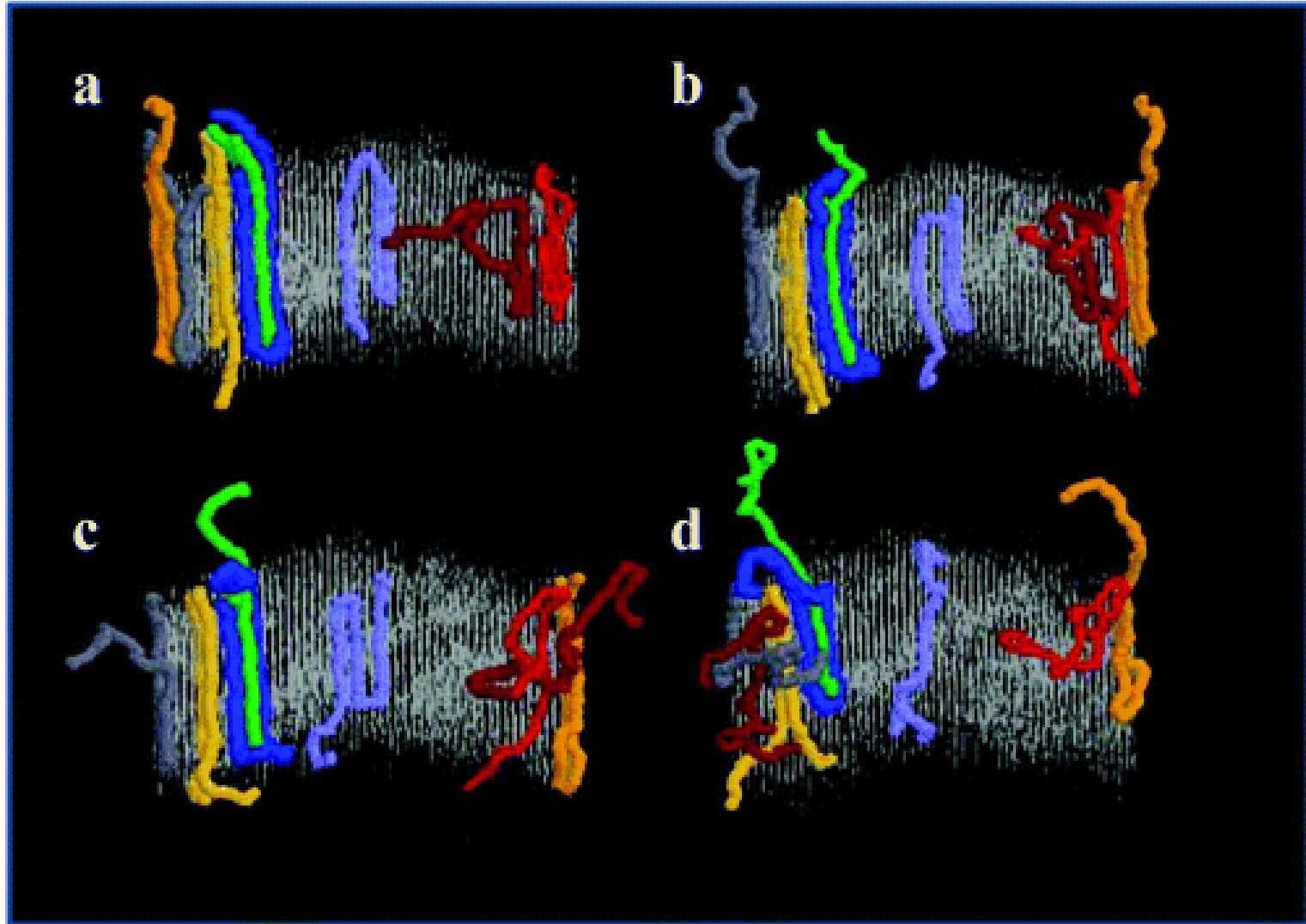
Polymer Structures



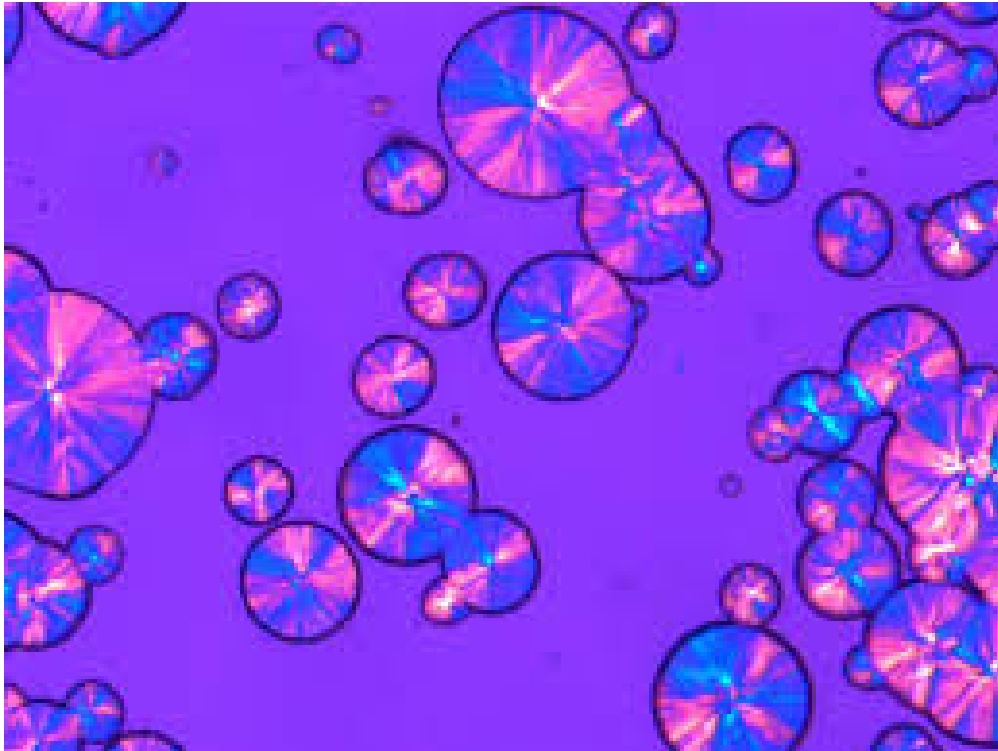
Lamella/ Chain folded model



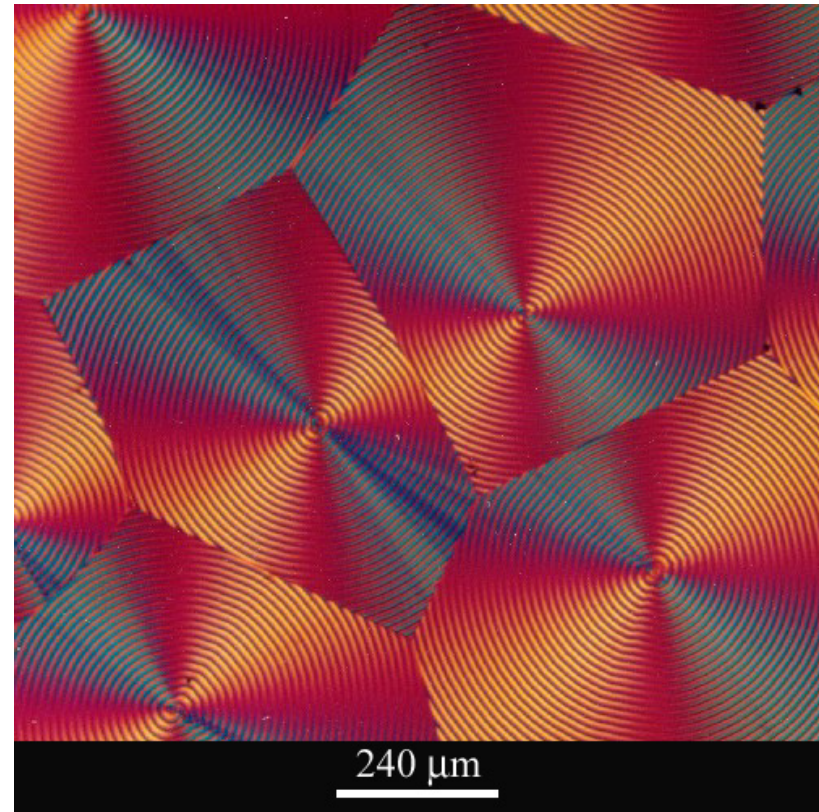
Crystallinity in Polymers



Spherulites



<https://www.flickr.com/photos/9944438@N05/2400037748>



<http://www.doitpoms.ac.uk/tlplib/polymers/spherulites.php>

Summary

- Polymers vs. metals/ionic materials
- Chain-folding sheets/lamella
- Spherulites