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1 Introduction. Polymer chemistry is adept at producing a wide range of polymeric materials tailored to a variety of applications. Unfortunately, the human eye is unable to see atoms, so the beauty of the molecular architecture of these materials often goes unnoticed.

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This text is intended as an introductory text for a course in polymer chemistry for advanced undergraduates or graduate students, as well as an introduction to the field for industrial

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Besides this excellent book by Stevens the other good textbooks for one semester university polymer courses are: (1)

"Introduction to Polymer Chemistry" 2nd or 3rd Edition by Charles E. Carraher, Jr. (2) "Polymer Science and Technology" 2nd or 3rd Edition by Joel R. Fried (3) "Polymers" by David Walton and Phillip Lorimer (Oxford Chemistry Primers)

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Polymer chemistry is a sub-discipline of chemistry that focuses on the chemical synthesis, structure, and chemical and physical properties of polymers and macromolecules. The principles and methods used within polymer chemistry are also applicable through a wide range of other chemistry sub-disciplines like organic chemistry, analytical chemistry, and physical chemistry.

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## **Polymer chemistry - Wikipedia**

Since the readership of Polymer Chemistry is wide ranging, it is essential that the Review is easily comprehensible to a non-specialist in the field. Authors are encouraged to identify areas in the field where further developments are imminent or of urgent need, and any areas (such as techniques) that may be of significance to the polymer chemistry community in general.

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Polymer chemistry: An introduction. By G. Challa. Ellis Horwood, London 1993. pp. 192, price hardback £17.50; paperback £14.95, ISBN 0-13-682519-2 (hardback); ISBN 0-13-489691-2 (paperback)

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5.33, Introduction to Polymer Chemistry Page 4 Classification of polymers: Polymers (synthetic) 1) Thermoplastics (plastics) — linear, some cross -linking can be melted and reformed on heating a) Amorphous — no ordered structure b) Semi -crystalline — composed of microscopic crystallites — domains of crystalline structure.

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involved is varied and links together many aspects of the subject including an introduction to organic chemistry, ions, structure and bonding. The activities that include both practicals and questions help ...

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