

APPLICATION OF X-RAY DIFFRACTION IN POLYMERIC MATERILAS

2. APPLICATIONS TO POLYMERS

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As a continuation of the previous presentation, experimental results of X-ray diffraction studies in several polymer systems will be discussed. The main topics include: (1) texture developed in polyethylene via rolling and channel die compression as revealed by wide and small angle X-ray scattering (2) a unique self-assembled anisotropic structure found in rigid-rod polymer thin films (3) density fluctuation and correlation as well as relaxation phenomena in amorphous polystyrene as determined by analyzing the X-ray intensities at the small and intermediate angles .