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*Bernhard Wunderlich, Martin Möller, Janusz Grebowicz, Herbert Baur*

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# Conformational Motion and Disorder in Low and High Molecular Mass Crystals (Advances in Polymer Science) (Volume 87)

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**Conformational Motion and Disorder in Low and High Molecular Mass Crystals (Advances in Polymer Science) (Volume 87)** Bernhard Wunderlich, Martin Möller, Janusz Grebowicz, Herbert Baur The broad field of conformational motion disorder in crystals is described with particular attention to the separation from the well known mesophases of liquid crystals and plastic crystals. Structure, thermodynamics and motion of a larger number of small and large molecules are discussed. Of special interest are the borderlines between smectic and high viscosity liquid crystals and condis crystals and between plastic crystals and condis crystals as complicated by pseudorotation, jumping between symmetry-related states and hindered rotation. This paper illustrates the wide distribution of conformational disorder in nature. Condis crystals and glasses (*Con*formational *Dis*order) can be found in small and large molecule systems made of organic, inorganic and biological compounds. The condis state was newly discovered only four years ago. In this article over 100 examples are discussed as example of the condis state. In many cases the condis state was suggested for the first time. Motion in the Condensed State, Condis Crystals and their Relation to Plastic Crystals, Condis Crystals of Flexible Macromolecules, Condis Crystals and their Relation to Liquid Crystals, Condis Crystals of Stiff Macromolecules.

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