Cluster Model Interrelation with Modern Physical Concepts

By G. V. Kozlov, Gennady Zaikov

Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Cluster Model Interrelation with Modern Physical Concepts, G. V. Kozlov, Gennady Zaikov, Fractal analysis gives just general mathematical description of polymers, i.e. it does not identify structural units (elements), from which any real polymer is formed. Physical description of thermodynamically non-equilibrium polymer structure in the framework of the local order ideas gives the cluster model of the polymer amorphous state structure that quantitatively identify its elements.Since these models consider the polymer structure somewhat from two sides, they are excellent completing one another. It is common knowledge that structures displaying fractal behaviour on small length scale and being homogeneous on large length scale are named homogeneous fractals. These fractals are percolation clusters at the percolation threshold. As shown below, the cluster structure represents the percolation system and, due to the above-said, the homogeneous fractal. To put it differently, the presence of the local order in the condensed phase of polymers determines fractality of their structures.

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