

Mössbauer effect in amorphous media

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This work is devoted to the study of ion exchange resins Dowex 50WX8 200-400 mesh and Dowex 1X8 100-200 mesh, washed in solutions of iron salts, by nuclear gamma resonance. Unlike crystalline solids, ion exchange resins do not possess long-range order and cannot be described using the phonon concept. Traditionally, the nuclear gamma resonance method is used to study solids. Gel is a three-dimensional matrix, in a certain sense it can be considered as a solid, but without much periodicity. Consequently, Mössbauer spectroscopy can be used as one of the methods for the determination of ionic forms in resins.

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