Physics and Chemistry of Minerals 1980 vol.6 N4, pages 283-293

## **Dissymmetrization of crystals: Theory and experiment**

Bulka G., Vinokurov V., Nizamutdinov N., Hasanova N. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

## Abstract

The distribution of Cu<sup>2+</sup> impurities in ZnSeO4·6H2O and Na2Cd(SO4)2·2H2O crystals was investigated by electron paramagnetic resonance. The tangential selectivity by sectors in pyramid growth was revealed. Dissymmetrization, i.e., decrease of point group symmetry, is explained by tangential selectivity occupying impurities and formation defects. An analysis by group theory is presented to explain dissymmetrization of crystals. The connection between the distribution of point defects in a crystal and the growth process is discussed. © 1980 Springer-Verlag.

http://dx.doi.org/10.1007/BF00307618