



**Stacking disorder in 2H-NbS₂ and its intercalation compounds K_x(H₂O)_yNbS₂
I. Description and model calculations of stacking faults in the host lattice NbS₂**

Katze, H.

Universität Kiel, Institut für Geowissenschaften, Mineralogie, Kristallographie,
Olshausenstr. 40, D-24098 Kiel, Germany

Fritz-Haber-Institut der Max-Planck-Gesellschaft, Abt Anorganische Chemie, D-14195
Berlin,
Germany

Abstract:

A quantitative modelling of the disorder phenomena in layered NbS₂ is presented. The polytypes 2H and 3R are considered and the variations of the intensity profiles for their transformations into each other are calculated in terms of a one-dimensional disorder model.