Stacking disorder in 2H-NbS$_2$ and its intercalation compounds K$_x$(H$_2$O)$_y$NbS$_2$
I. Description and model calculations of stacking faults in the host lattice NbS$_2$

Katze, H.
Universität Kiel, Institut für Geowissenschaften, Mineralogie, Kristallographie,
Olshaussenstr. 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 NbS$_2$ 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.