
ANAMARIA SAVU, University of Alberta

Discrete Solid-on-Solid models

A crystal is a solid in which the atoms form a periodic arrangement. For many practical applications, understanding structural atomic arrangement and processes governing formation of crystals are essential to obtain useful properties. A special class of models so called Solid-on-Solid models are used to study the equilibrium statistical mechanics of surfaces. Several discrete Solid-on-Solid models and partial differential equations for surface diffusion are discussed.