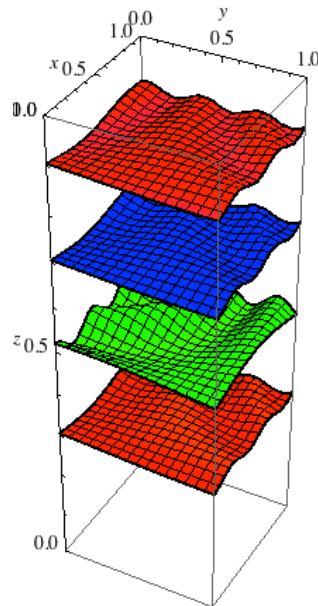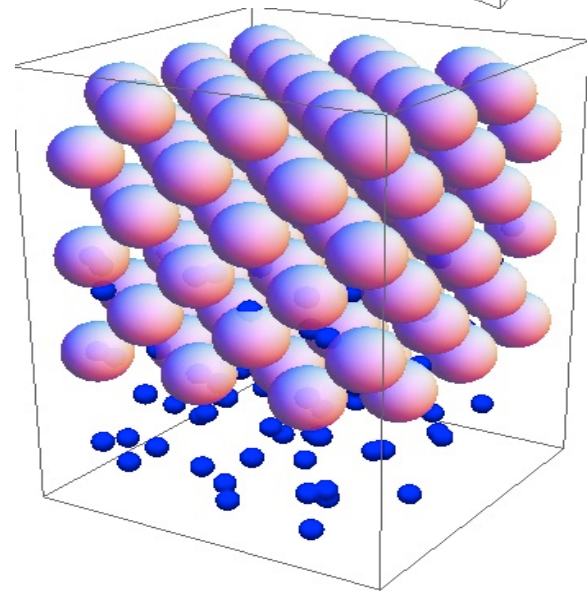# Modeling the Coupling of Elastic Anisotropy and Network Topology in Poroelastic Transport

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Phase-Field Model of Poroelasticity

-phase-field description of porous medium

-elastic deformation is incorporate

- model of imbibition

Atomistic Simulation of Diffusion

- combined MD and GCMC simulations

- diffusing smaller atoms deform crystal

- non-Fickian diffusion due to deformation