Materials Geometry

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Why is geometry so effective as a tool in the study of materials? Why do physical systems extremize energies? Calculus of variations is such an essential part of our formulation of the world and geodesics are the fundament of geometry. I will give a few the power examples where of geometric logic provides an express route to the understanding of complex These will include the systems. knitting shown on the right, analysis of diblock copolymers, and the packing of soft spheres. There will be demonstrations.

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