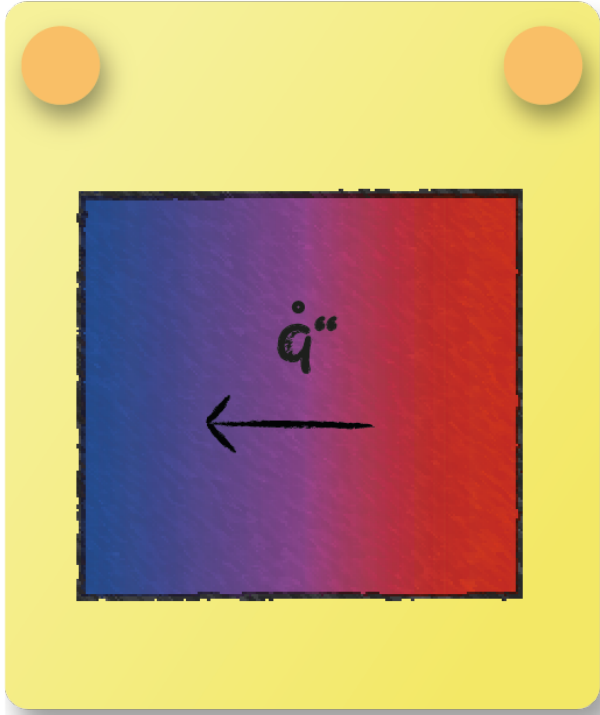


Lecture 1 - Question 1



What are the physical mechanisms of heat conduction?



Heat conduction is governed by different mechanisms depending on the materials state of aggregation. In solid bodies heat is conducted via lattice vibrations that transfer energy from one molecule to another. Within fluids intermolecular collisions lead to an exchange of kinetic energy. Since kinetic energy on a molecular basis is synonym with temperature, the mechanism is referred to as heat conduction.