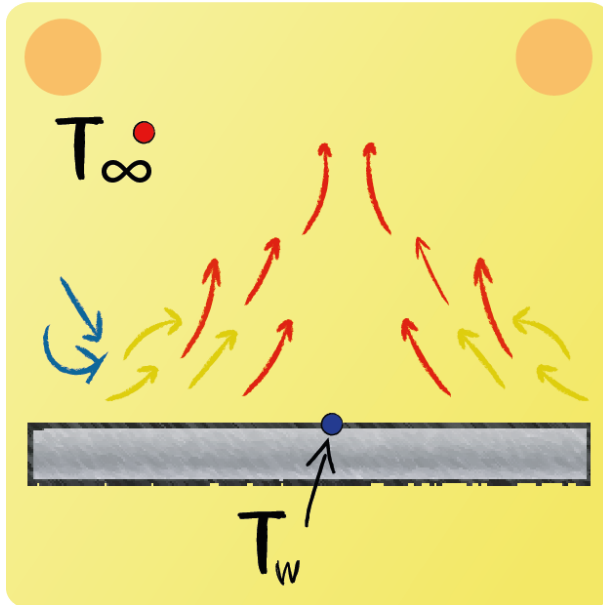


Lecture 1 - Question 2



Give the correct statements for forced and natural convection.

In natural convection, any fluid motion is caused naturally, such as the buoyancy effect, i.e. the rise of warmer fluid.

Natural convection is a mechanism of heat transportation in which the fluid motion is not generated by an external source. Instead the fluid motion is caused by buoyancy, the difference in fluid density occurring due to temperature gradients.

Forced convection is a fluid motion forced by an external pump or fan

Forced convection is a special type of heat transfer in which fluids are forced to move, in order to increase the heat transfer. This forcing can be done with a ceiling fan, a pump, suction device, or other.

