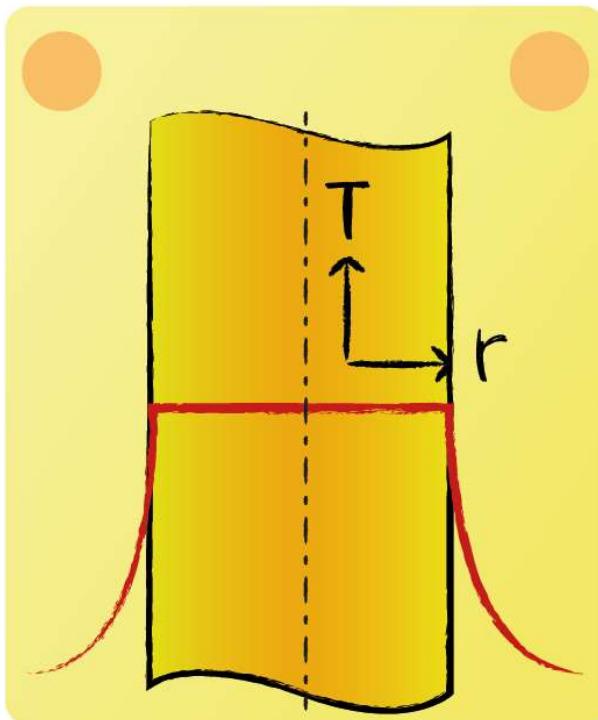


## Lecture 10 - Question 1



Give the definition of the Biot number

It is the resistance of **conduction inside** the body **divided** by the resistance of **convection outside** the body.



The Biot number is a dimensionless number. It gives a simple index of the ratio of the thermal conductive resistance inside of a body and of the thermal convective resistance outside the body. This ratio helps determining whether or not the temperatures inside a body will vary significantly, while the body heats or cools over time.