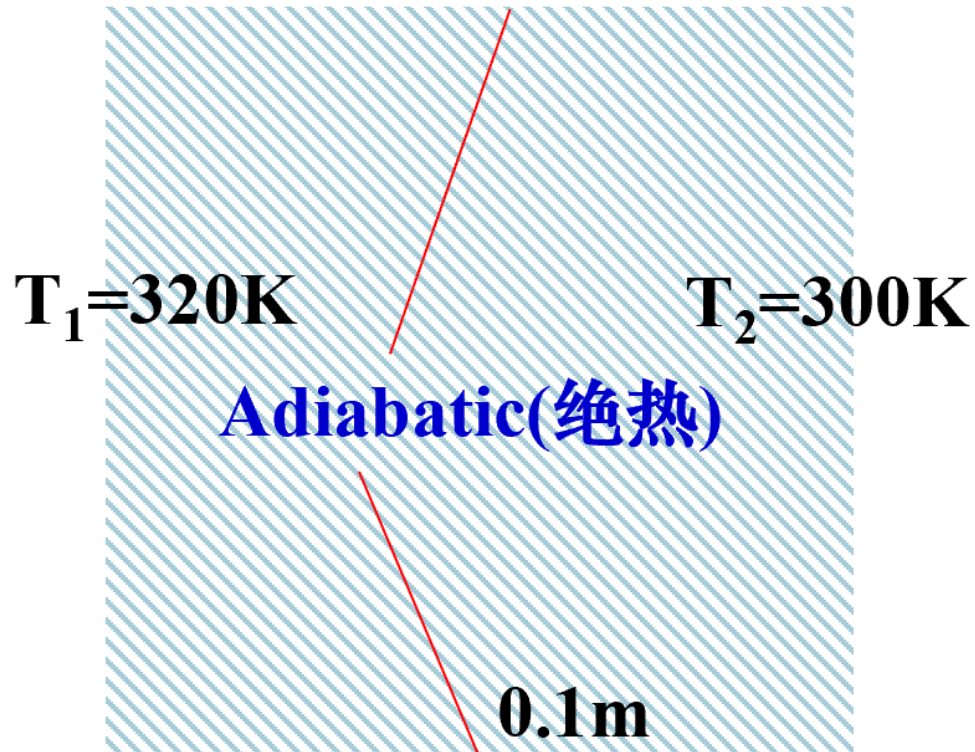# Computer-aided project (3) of NHT-2021, XJTU

Known：**Natural convection of air in a square filled with porous media. The left wall is with high temperature, while the right wall is with low temperature. The bottom and top walls are adiabatic.**

T$_1$=320K   T$_2$=300K

Adiabatic(绝热)

0.1m

Find: effects of porosity, permeability, effective thermal conductivity and Gr number on the velocity field, temperature field and *Nu* numbers.