

# Simulation of the variation in temperature in a material without and with default

**K.Gherfi, M.Chaour, S.Boukroune**

**Abstract :** In this article our principal study is the simulation of the variation in temperature in a solid material in absence and in presence of the default, in particular a fracture on the level of surface of material, and to see how the default influences on heat transfer in a solid. The simulation is made by FLUENT software which permits us to solve the energy equation by finite volumes method.

**Keywords :** heat transfer; simulation; material; default