

# Profile of heat transfer between two different materials

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**Abstract :** In this article we made a study on the transfer of heat in two different materials such as steel and copper. Initially we present the profile of heat transfer in each material alone, after we present the profile of the same phenomena in the two materials in contact, and to see how the temperature is propagated when we have a variation of thermal conductivity. The simulation is made by ANSYS software which permits us to solve the energy equation by finite element method.

**Keywords :** Simulation; material; heat transfer.