**Distribution of Temperature in Multilayer Material**

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**Abstract**

Multilayer material is a composite medium composed of several layers of material, for example, electroplating material. Merging of the physical, mechanical and thermal properties of each material makes the heat conduction phenomenon in the material become interesting. To know the phenomenon of temperature distribution in multilayer material, heat conduction equation for slab is used. Slab arranged by two layers of material with 1st  layer are considered thicker than 2nd layer. Completion of the one dimensional heat conduction equation obtained by numerical approach of explicit finite difference method. The initial temperature is considered a time-independent wave function, while the boundary conditions of the slab edges is Dirichlet condition.

**Keywords:** *Multilayer, heat conduction, temperature distribution, finite difference method.*