ABSTRACT

This analysis or study is to know the temperature distribution of solid matter in unsteady state. In this case, it is use the composite solid matter that is constructed of two kind of solid matter. This analysis is established on flat temperature for the matter and constant temperature for fluid on the boundary condition which has a constant coefficient too. The method for this study is Finite differences method within numerical computation method. To get a good result, this analysis take five kinds of matter and also the coefficient of convection heat transfer. Further, after take a count of some mathematic equation shows a contrast result because of influence of the lowest thermal diffusivity to the highest one. Besides the first result, the influence of coefficient of convection heat transfer on composite solid matter is absolutely known. Based on many fact in this study, we can take an assumption that finite differences is one of many other methods to know the temperature distribution of solid matter.