

Question 3

Q: If a heat source switches frequently or varies rapidly, how to analyze the model including that heat source?

A: If the heat source changes rapidly, the temperature around the heat source may not be able to keep up with the rapid change. In such a case, you should set an averaged heat to the heat source, and then select either the steady-state or transient analysis based on your application. To determine whether the temperature is following the change in the heat source, perform the transient analysis for a few cycles of heat source change. If the change in temperature is flatter than the change in the heat source, it indicates that the temperature is not following the change in the heat source.