

# Abaqus Tutorial Thermal Analysis

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Description The thin plate (70 35) shown below is exposed to a temperature of 25 degree. When the temperature reaches 150 degree, the plate will have expansion. A fixed boundary condition of the top plate will cause changes in stress field. The thermal ...

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Finite Element Heat Transfer Analysis 3D - Abaqus CAE

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2. A tutorial: Creating and analyzing a simple model

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The materials in a fully coupled thermal-stress analysis must have both thermal properties, such as conductivity, and mechanical properties, such as elasticity, defined. See Part V, " Materials, " for details on the material models available in ABAQUS.

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## **Heat Transfer and Thermal-Stress**

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