Software for Modeling Material Response to Heat Transfer

Technology #6205

The software provides the capability to analyze the response of a material to high levels of heat transfer.

Background

The software is written in modular form, allowing great flexibility in simulating different materials and different geometries.

Applications

• Analysis of thermal protection systems of missiles
• Analysis of thermal protection systems of spacecraft entering planetary atmospheres
• Analysis of thermal protection systems of rocket nozzles

Advantages

• Flexible, modular software with many options
• Developed to interact with computational fluid dynamic (CFD) codes

Inventors

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