

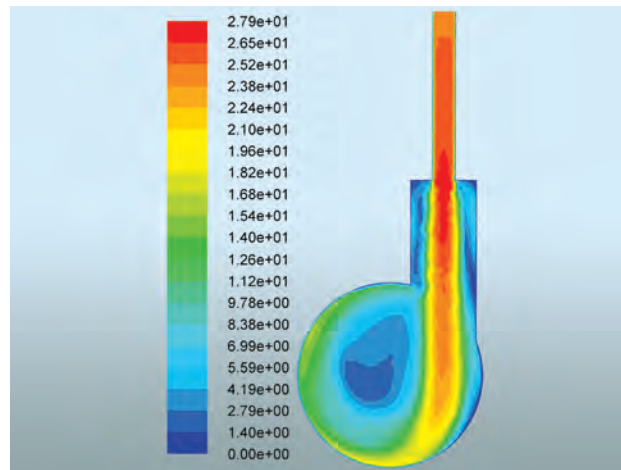
## DESIGN, COMPUTATION, AND SIMULATION OF PHYSICAL PROCESSES

### Areas of Application

Development and improvement of technologies in the sphere of chemical engineering, power engineering, and other industries using advanced computer technologies for design, computation, analysis, and simulation of physical processes

### Specification

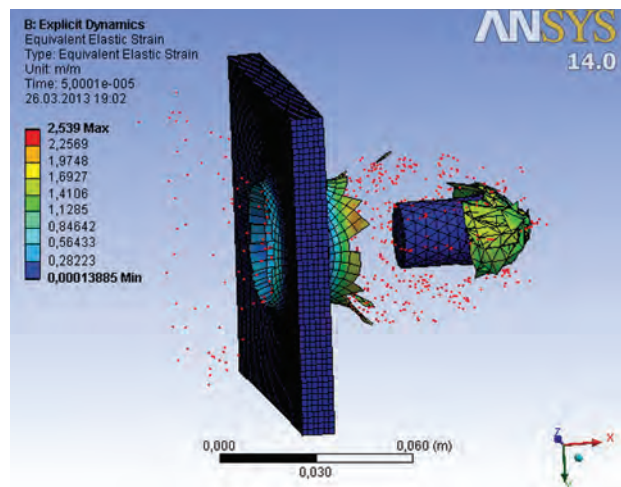
Strength and pressure analyses;  
heat transfer (steady and unsteady);  
hydrodynamics (including dispersive media);  
thermochemical calculations;  
and interdisciplinary analysis



Simulation of methane combustion in the cyclone type reactor

### Advantages

3D device design using advanced technologies is a key to better and more qualitative calculations and analysis of technology and processes and prevents design mistakes. The simulation of physical processes enables to carry out a virtual experiment instead of expensive full-scale one and gives valuable technical information

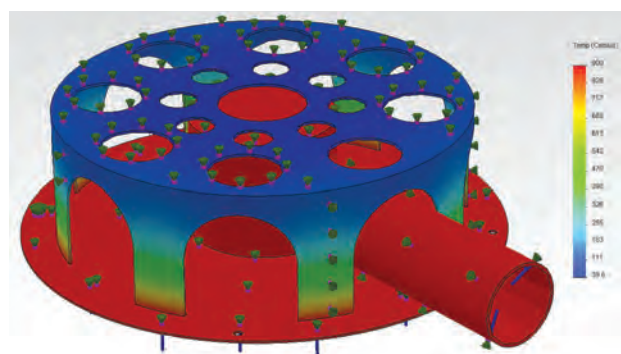


Simulation of projectile burst and armor damage for a projectile flight speed of 2000 m/s

### Stage of Development. Suggestions for Commercialization

IRL7, TRL8

Calculations or development of appropriate technology, manufacture, delivery, warranty service of device (plant or factory), and staff training are provided upon request



Simulation of natural convection heat transfer between a part of device and environment

### IPR Protection

IPR1, IPR2

### Contact Information

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