Cantera: an open source software tool for integrating complex thermochemistry into energy technology simulations

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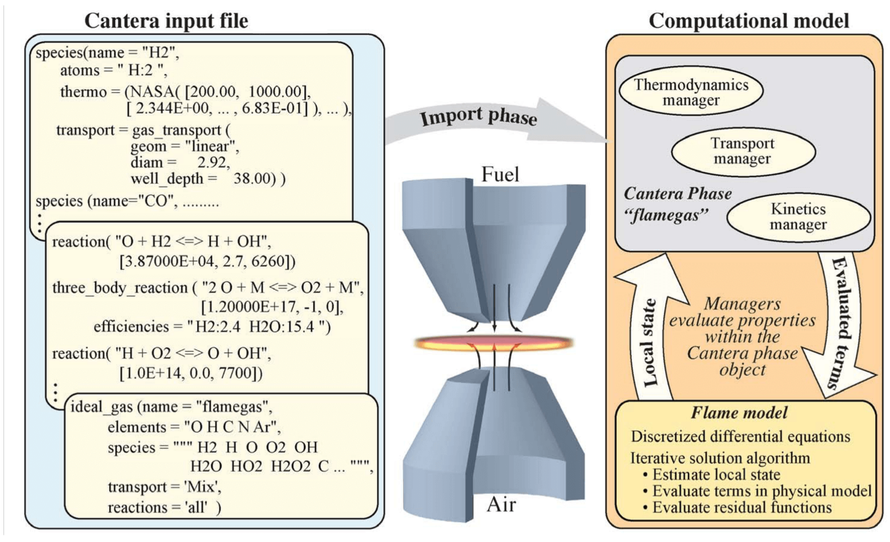
Cantera is an open-source suite of tools for problems involving **chemical kinetics**, **thermodynamics**, and **transport** processes.

Cantera's object-oriented architecture enables **efficient development** of new models.

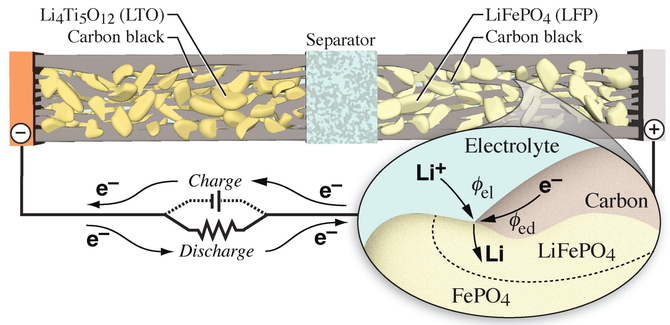


Cantera objects/classes represent:

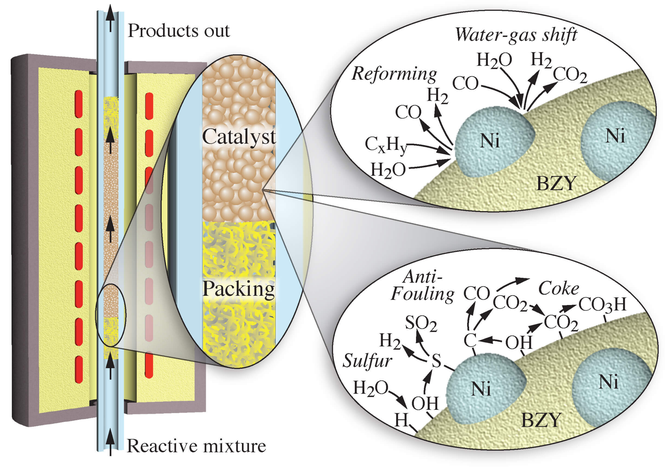
- Phases of matter (solids, liquids, vapors, interfaces)
- Functions to calculate properties and processes
- Selected combustion applications

Cantera is widely adopted in the combustion field, and undergoing development into new areas including:

Electrochemistry



Heterogeneous catalysis



Cantera
https://cantera.org

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