Process gas
Heating gas
15 cm
20 cm
12 cm

#1502

Non conventional chemical reactor simulator

MODELING, SIMULATION AND OPTIMIZATION OF MONOLITHIC REACTORS, MICRO-REACTORS AND MEMBRANE REACTORS

DESCRIPTION

Simulation modules under steady state operation applied to non-conventional reactor designs; monolithic reactors, micro-reactors, parallel plate and membrane reactors. The developed simulation packages can be adapted to different geometries, catalysts and membrane materials.

APPLICATIONS

Oxidative dehydrogenation reactors | Hydrogen production and purification processes.

ADVANTAGES

- Analysis of design alternatives.
- Ad-hoc simulators for structured
- Sensitivity analysis.
- Training tool.
- Customizable simulators according to client´s requirement.

DEVELOPMENT STATUS

Full version available. Successful validation against experimental data.

RESEARCHERS

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