

Deliverable D13: Mixing state obstacle course

Objective: Develop a suite of benchmark cases for model verification (“mixing state obstacle course”)

Lead personnel: Riemer, West

Collaborators: TBD

Funding status: planned

Challenges or needed resources/collaborators:

Need modeling collaborators to (1) define relevant test cases, and (2) perform model intercomparison.

Summary of progress:

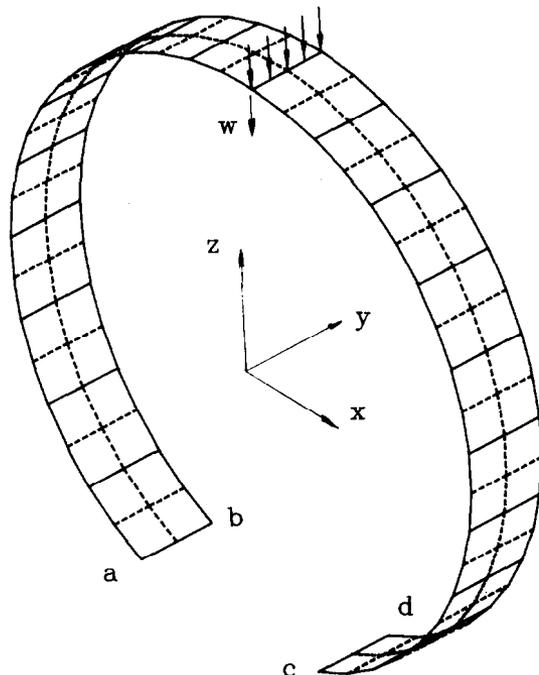
Comparison of QMOM and PartMC for coagulation case

STRESS PROJECTION FOR MEMBRANE AND SHEAR LOCKING IN SHELL FINITE ELEMENTS*

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Received 22 February 1985



Benchmark problems for incompressible fluid flows with structural interactions

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Received 15 January 2007; accepted 26 January 2007

Available online 29 March 2007

$\frac{W_{FEM}}{W_{anal}}$	clamped	pinned	6 DOF support*
full 3X3	0.702	0.760	-
S R I	0.830	0.830	0.850
reduced 2X2	1.006	1.005	fails, K is singular