

# HydrothermalFoam

solvers

HydrothermalSinglePhaseDarcyFoam

libraries

BoundaryConditions ← see subsection 2.4

hydrothermalHeatFlux ← see Equation 11

submarinePressure ←  $p_{seafloor} = \rho_0 g z$

noFlux ←  $\nabla p = \rho \vec{g}$

hydrothermalMassFluxPressure ← see Equation 13

ThermoModels ← see subsection 2.5

freesteam-2.1 ← source code of freesteam2.1

benchmarks ← see section 5

HydrothermalFoam

1d ← see subsection 5.1

2d ← see subsection 5.2

3d ← see subsection 5.3

USGS\_HYDROTHERMAL

cookbooks

manual