HT coupling

Density

Couple model internally

Iterate T🡪 density —> fluid flow

Density in kelvin

Fluid density from: 1) pressure solution (linked to permeability) – 2) flux interpreted from pressure (momentum solution, more accurate but more time to solve) – finite volume code

1 – unconfined aquifer: multiplied by head – benchmarks

2- Richard flow solution – solve for capillary pressure to work out where fluid flow needs to be

3- multiphase flow simulation – saturation porous media \* (curves, not linear)

4- drain using storage term quite high – better one