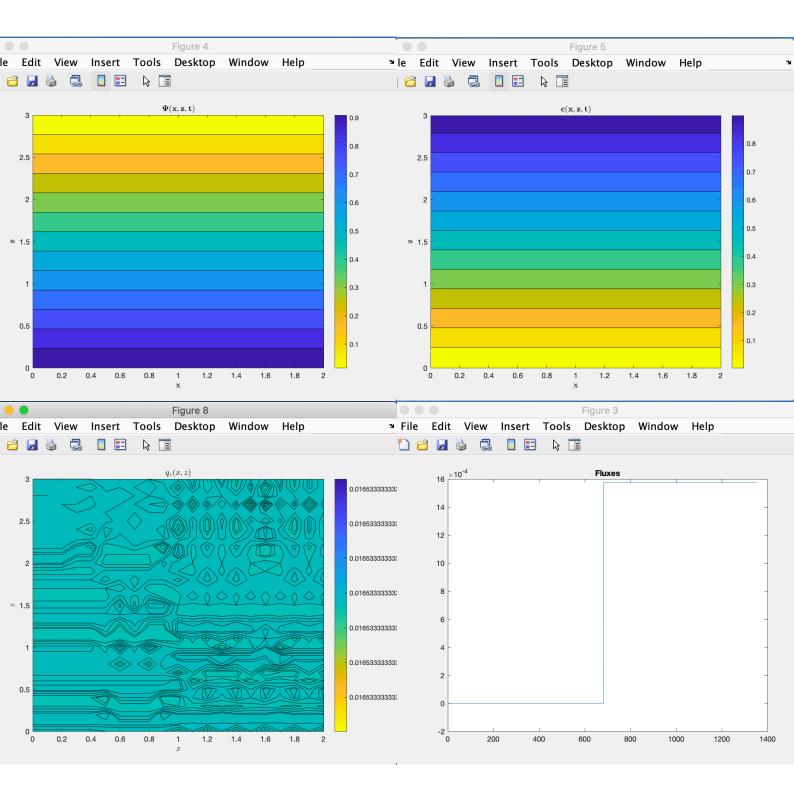
Updates

No gravity

I am reporting here the plots of pressure, concentration, vertical velocity and water fluxes. The results seem to be better. If I can use U_mean computed by myself the results for the norm are optima.



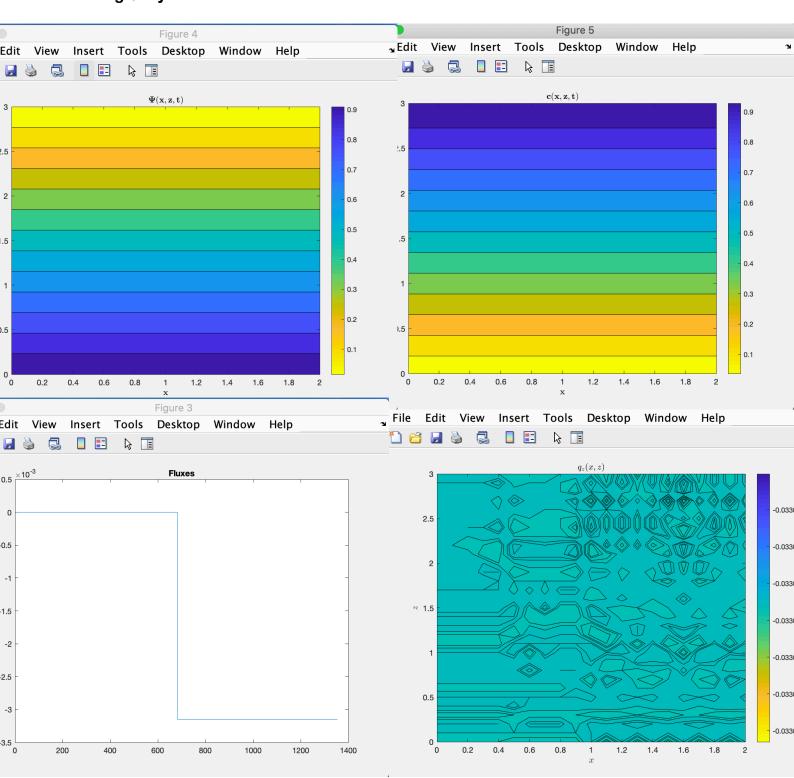
U_o = original u_mean = 0.0165

U_new = numerically computed u_mean = 0.0165

The difference between the two is noticeable only by using the long format.

 $norm(vy - U_o, Inf) = 7 e-4$ $norm(vy - U_new, Inf) = 4.7531e-16$

With gravity



 $U_o = original u_mean = -0.0331$

U_new = numerically computed u_mean = -0.0331

The difference between the two is noticeable only by using the long format.

 $norm(vy - U_o, Inf) = 8.5049e-04$

norm(vy - U_new, Inf) = 7.0083e-16