
Scheme-2 Reactor-1

Part-2, Case-9

*ta = 4500 sec, tm = 1200 sec
k1 = 0.1, k2 = 0.01*

NBt/NAt = 1.03355

*Exponent a = 1
Exponent b = 1
Exponent c = 1.5
Exponent d = 0.5*

*WA = 200
WB = 51.6776
NBt = 2.75614
Vt = 2.12584
Vat = 1.02584
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*NA0 = 2.66667
NB0 = 0*

*Total input = 251.678 kg
Total output = 251.678 kg*

Chemical Balance Error = 0.000111114 kg (% 4.41493e-07)

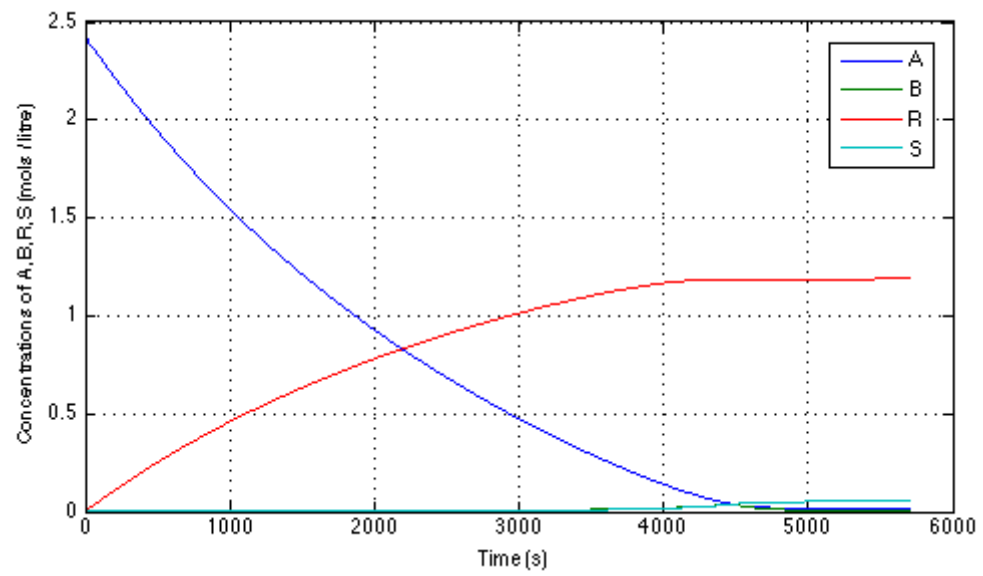
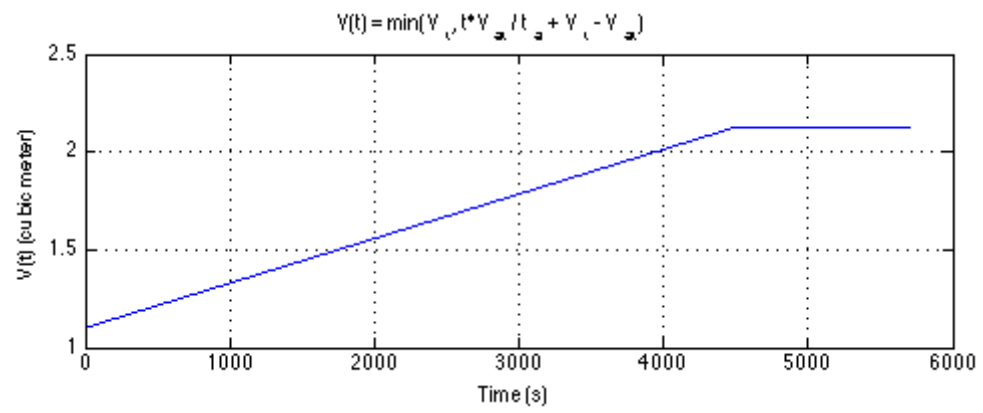
*Solver: Explicit Runge-Kutta (4,5) Variable step (Dormand-Prince Pair)
Error tolerance: 0.01%*

Final Concentrations with Step Size limited to 0.001

*NA (final) = 0.0266284
NB (final) = 0.00348071
NR (final) = 2.52742
NS (final) = 0.112618*

Final Concentrations with Step Size limited to 0.01

*NA (final) = 0.0266286
NB (final) = 0.00348065
NR (final) = 2.52742
NS (final) = 0.112617*



Published with MATLAB® 7.12