
Scheme-9 Reactor-1

Part-2, Case-8

*ta = 3600 sec, tm = 1200 sec
k1 = 0.1, k2 = 0.01*

NBt/NAt = 1.13764

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

*WA = 200
WB = 56.8821
NBt = 3.03371
Vt = 2.12844
Vat = 1.02844
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*NA0 = 2.66667
NB0 = 0*

*Total input = 256.882 kg
Total output = 256.882 kg*

Chemical Balance Error = 0.000391663 kg (% 1.52468e-06)

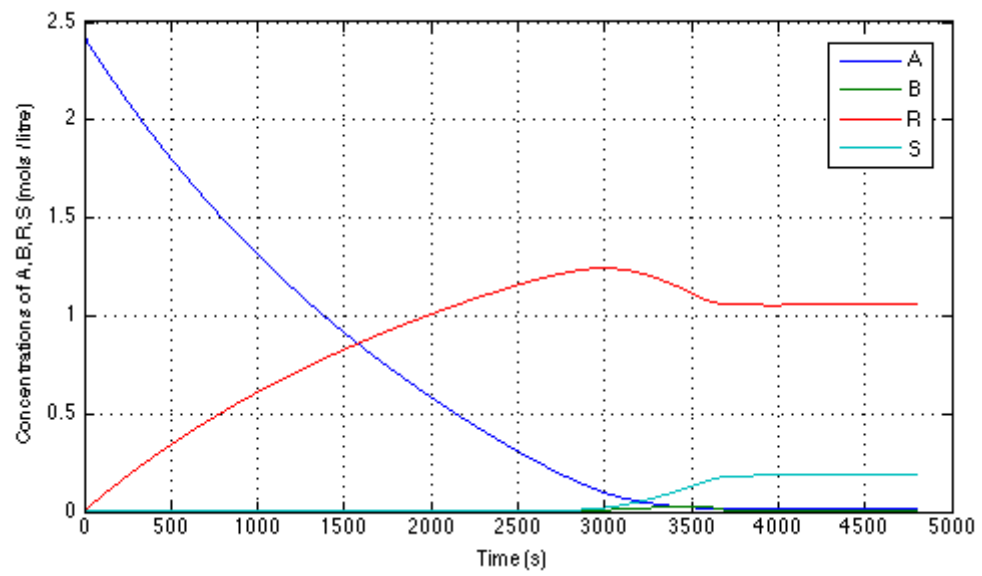
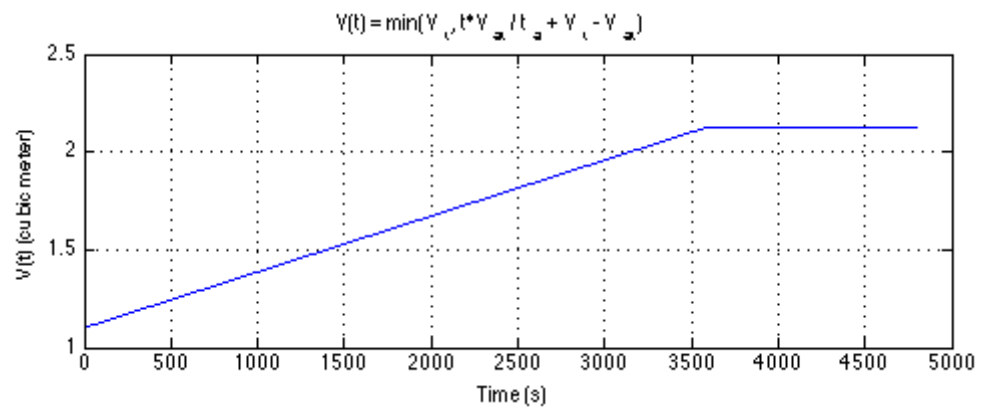
*Solver: Explicit Runge-Kutta (4,5) Variable step (Dormand-Prince Pair)
Error tolerance: 0.01%*

Final Concentrations with Step Size limited to 0.001

*NA (final) = 0.0266886
NB (final) = 3.93949e-15
NR (final) = 2.24625
NS (final) = 0.393732*

Final Concentrations with Step Size limited to 0.01

*NA (final) = 0.0266887
NB (final) = 3.94549e-13
NR (final) = 2.24625
NS (final) = 0.393732*



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