
Scheme-3 Reactor-1

Part-2, Case-7

*ta = 100 sec, tm = 1200 sec
k1 = 0.1, k2 = 0.01*

NBt/NAt = 1.49279

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

*WA = 200
WB = 74.6396
NBt = 3.98078
Vt = 2.13732
Vat = 1.03732
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*NA0 = 2.66667
NB0 = 0*

*Total input = 274.64 kg
Total output = 274.641 kg*

Chemical Balance Error = 0.00124294 kg (% 4.52573e-06)

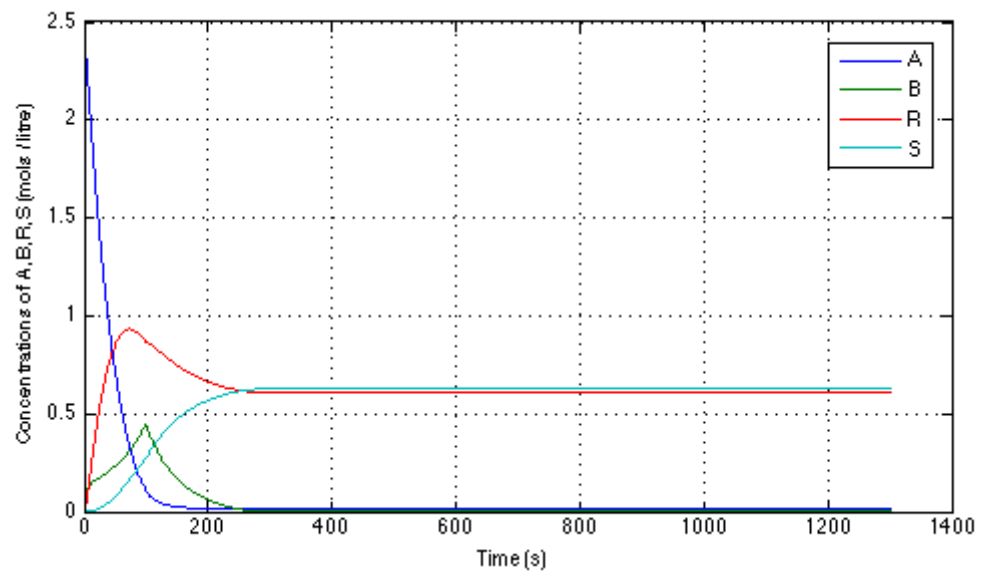
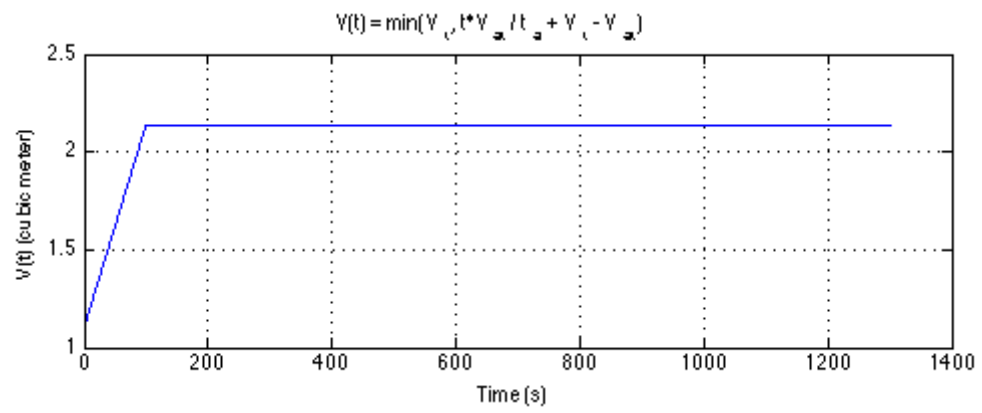
*Solver: Explicit Runge-Kutta (4,5) Variable step (Dormand-Prince Pair)
Error tolerance: 0.01%*

Final Concentrations with Step Size limited to 0.001

*NA (final) = 0.0265799
NB (final) = 4.51526e-12
NR (final) = 1.2994
NS (final) = 1.34069*

Final Concentrations with Step Size limited to 0.01

*NA (final) = 0.0265852
NB (final) = 4.51602e-10
NR (final) = 1.29944
NS (final) = 1.34064*



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