
Scheme-4 Reactor-1

Part-2, Case-7

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

NBt/NA_t = 1.38744

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

*WA = 200
WB = 69.3718
NBt = 3.69983
Vt = 2.13469
Vat = 1.03469
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*NA0 = 2.66667
NB0 = 0*

*Total input = 269.372 kg
Total output = 269.373 kg*

Chemical Balance Error = 0.00096886 kg (% 3.59674e-06)

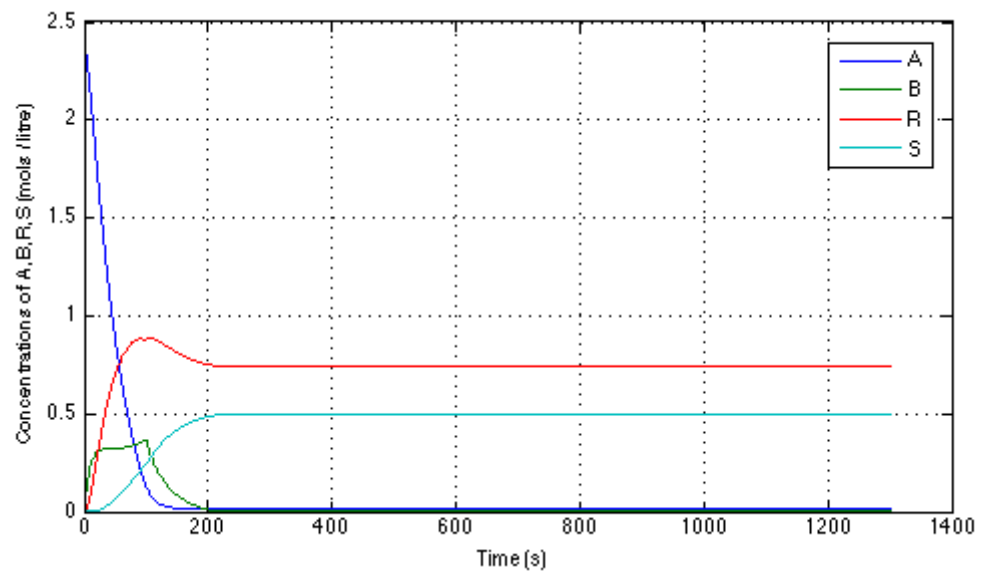
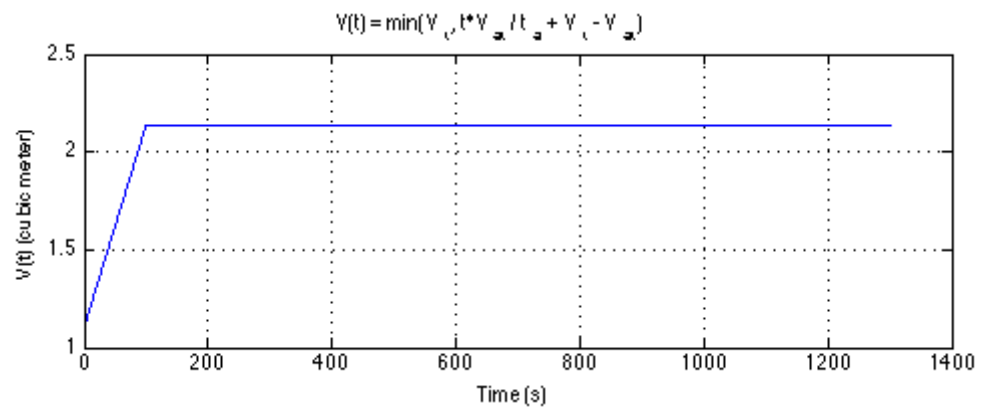
*Solver: Explicit Runge-Kutta (4,5) Variable step (Dormand-Prince Pair)
Error tolerance: 0.01%*

Final Concentrations with Step Size limited to 0.001

*NA (final) = 0.0265436
NB (final) = 8.14407e-12
NR (final) = 1.58042
NS (final) = 1.0597*

Final Concentrations with Step Size limited to 0.01

*NA (final) = 0.026556
NB (final) = 8.14499e-10
NR (final) = 1.58044
NS (final) = 1.05967*



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