
Scheme-2 Reactor-2

Part-2, Case-7

*tend = 1200 sec
k1 = 0.1, k2 = 0.01*

NBt/NA_t = 1.13507

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

*WA = 200
WB = 56.7536
NBt = 3.02686
Vt = 2.12838
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*CA0 = 1.25291
CB0 = 1.42214*

*Total input = 256.754 kg
Total output = 256.754 kg*

Chemical Balance Error = 0.000381271 kg (% 1.48497e-06)

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

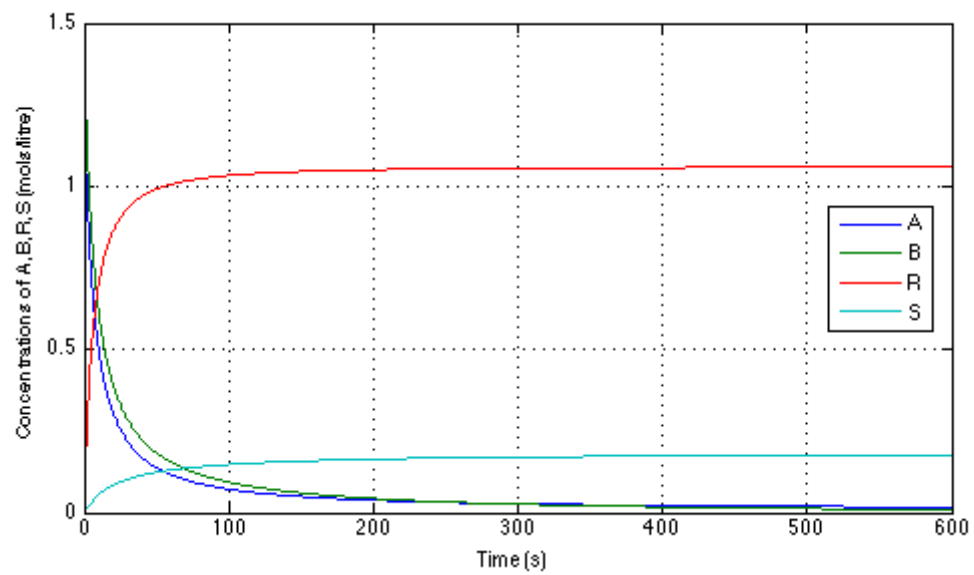
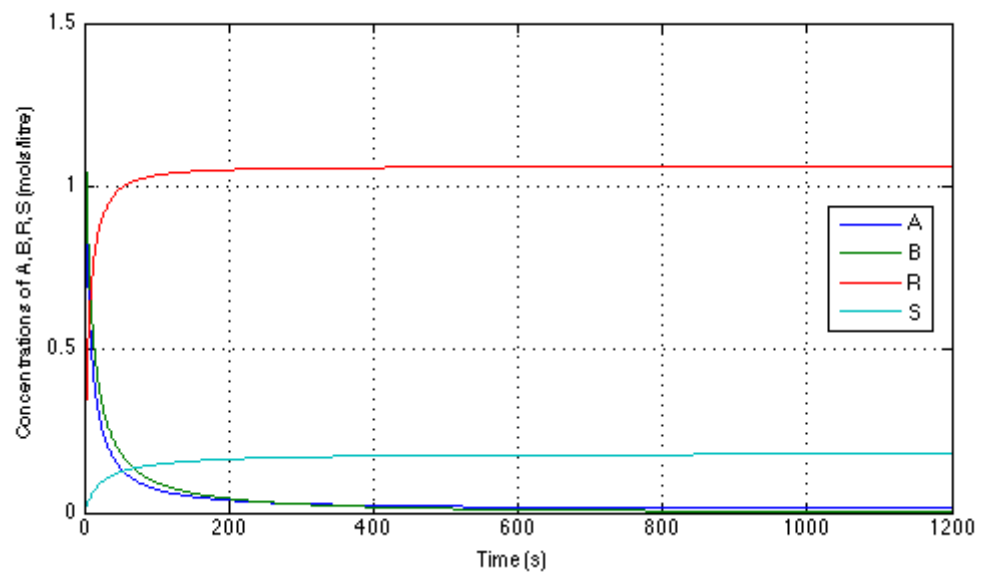
Final Concentrations with Step Size limited to 0.0001

*CA (final) = 0.0125323
CB (final) = 0.00262924
CR (final) = 1.06124
CS (final) = 0.179137*

*CA @ 600.0s = 0.0170437
CB @ 600.0s = 0.00952291
CR @ 600.0s = 1.05911
CS @ 600.0s = 0.176755*

Final Concentrations with Step Size limited to 0.001

*CA (final) = 0.0125323
CB (final) = 0.00262924
CR (final) = 1.06124
CS (final) = 0.179137*



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