
Scheme-2 Reactor-2

Part-2, Case-8

*tend = 1800 sec
k1 = 0.1, k2 = 0.01*

NBt/NA_t = 1.13163

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

*WA = 200
WB = 56.5813
NBt = 3.01767
Vt = 2.12829
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*CA0 = 1.25296
CB0 = 1.41788*

*Total input = 256.581 kg
Total output = 256.582 kg*

Chemical Balance Error = 0.00037586 kg (% 1.46488e-06)

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

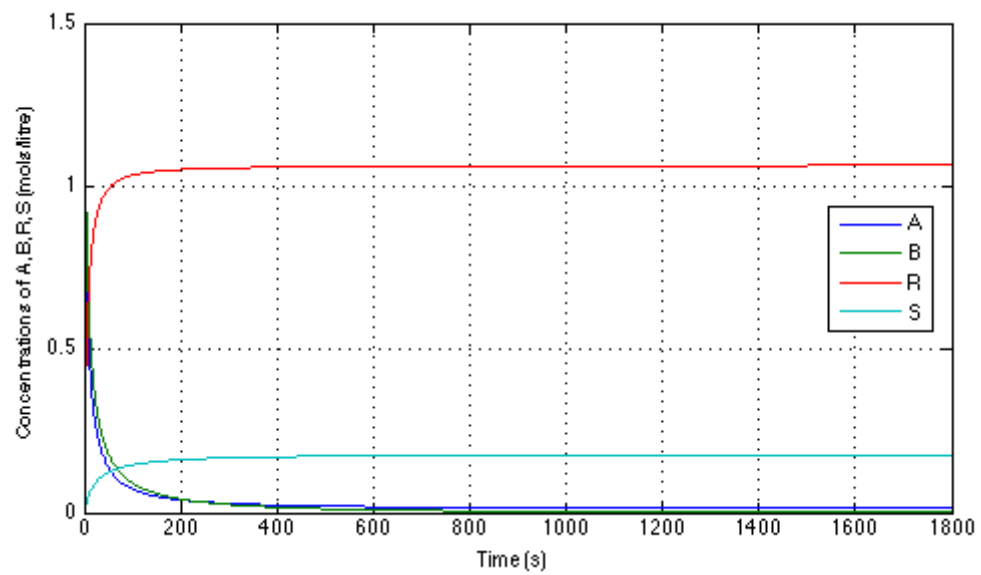
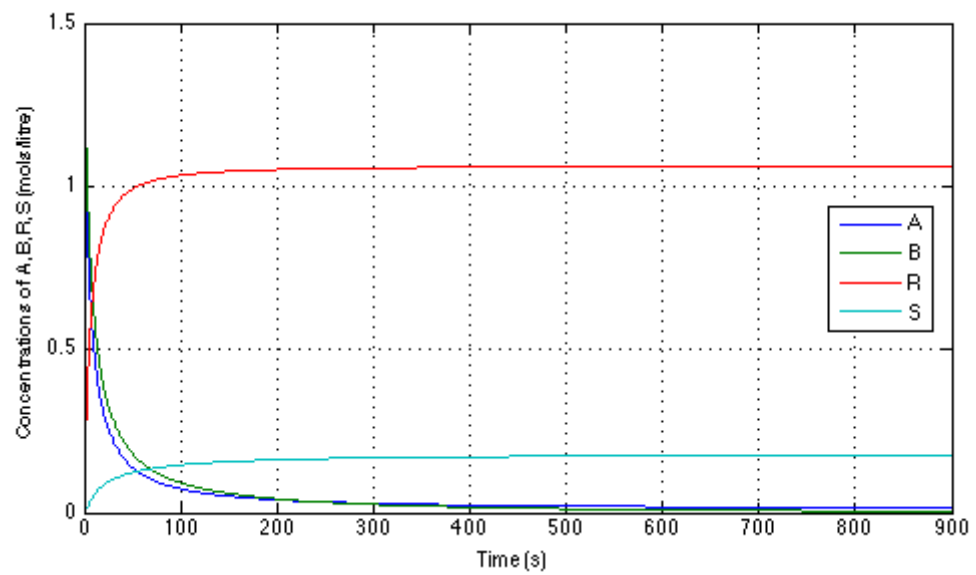
Final Concentrations with Step Size limited to 0.0001

*CA (final) = 0.0125337
CB (final) = 0.000853558
CR (final) = 1.06383
CS (final) = 0.176602*

*CA @ 900.0s = 0.0150576
CB @ 900.0s = 0.00429912
CR @ 900.0s = 1.06222
CS @ 900.0s = 0.17568*

Final Concentrations with Step Size limited to 0.001

*CA (final) = 0.0125337
CB (final) = 0.000853558
CR (final) = 1.06383
CS (final) = 0.176602*



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