
Scheme-2 Reactor-2

Part-2, Case-10

*tend = 3600 sec
k1 = 0.1, k2 = 0.01*

NBt/NA_t = 1.12994

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

*WA = 200
WB = 56.4971
NBt = 3.01318
Vt = 2.12825
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*CA0 = 1.25299
CB0 = 1.4158*

*Total input = 256.497 kg
Total output = 256.497 kg*

Chemical Balance Error = 0.000373035 kg (% 1.45435e-06)

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

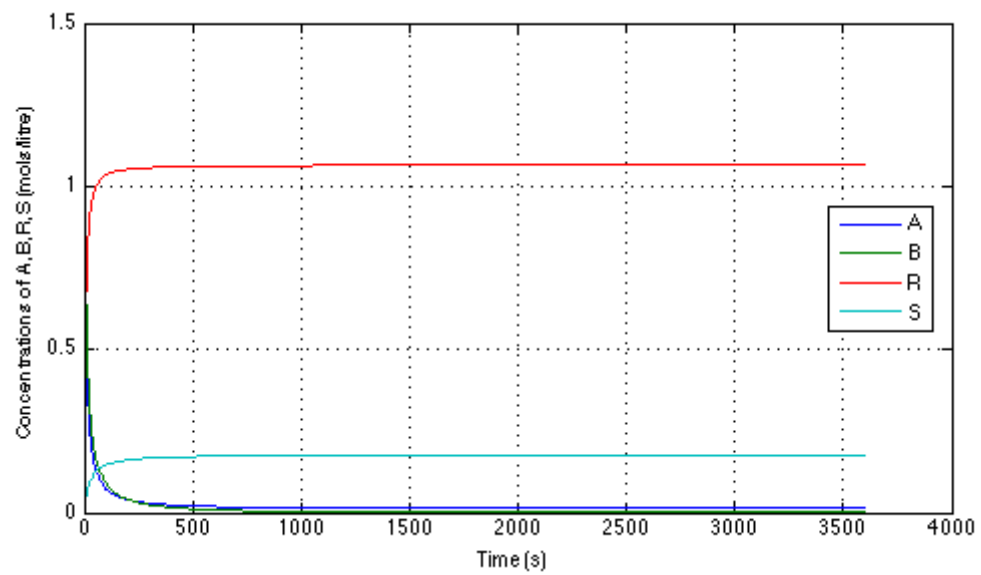
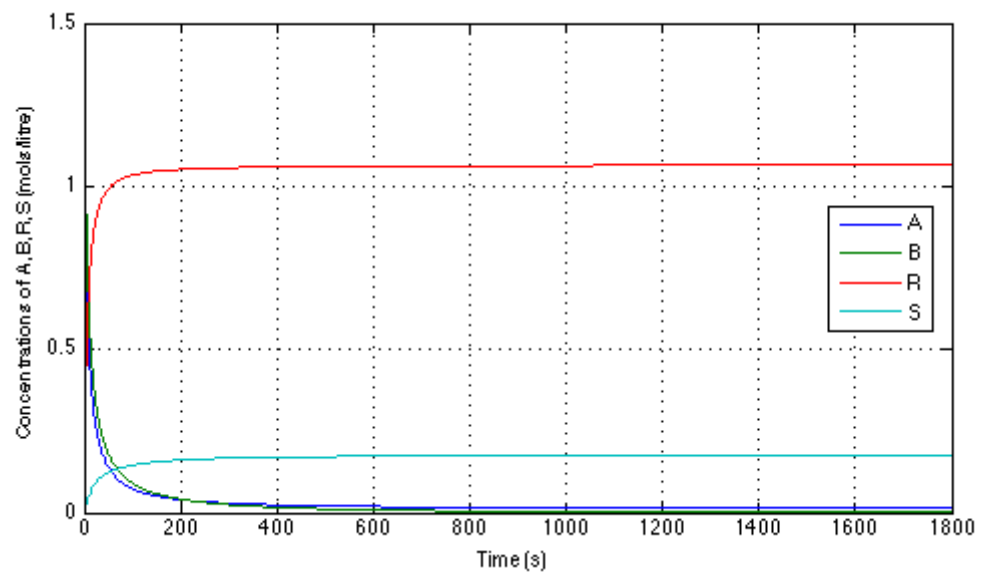
Final Concentrations with Step Size limited to 0.0001

*CA (final) = 0.012522
CB (final) = 5.97252e-05
CR (final) = 1.06519
CS (final) = 0.175278*

*CA @ 1800.0s = 0.0131482
CB @ 1800.0s = 0.000784104
CR @ 1800.0s = 1.06466
CS @ 1800.0s = 0.17518*

Final Concentrations with Step Size limited to 0.001

*CA (final) = 0.012522
CB (final) = 5.97252e-05
CR (final) = 1.06519
CS (final) = 0.175278*



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