
Scheme-2 Reactor-1

Part-2, Case-8

*ta = 3600 sec, tm = 1200 sec
k1 = 0.1, k2 = 0.01*

NBt/NAt = 1.03668

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

*WA = 200
WB = 51.834
NBt = 2.76448
Vt = 2.12592
Vat = 1.02592
Tot.Solv. = 2
Sola/(SolR+Sola) = 0.5*

*NA0 = 2.66667
NB0 = 0*

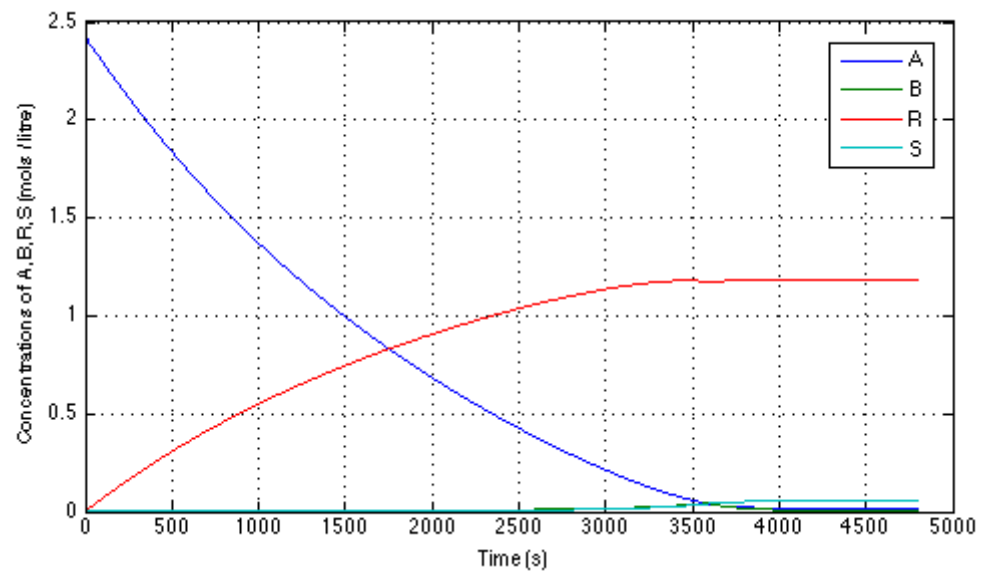
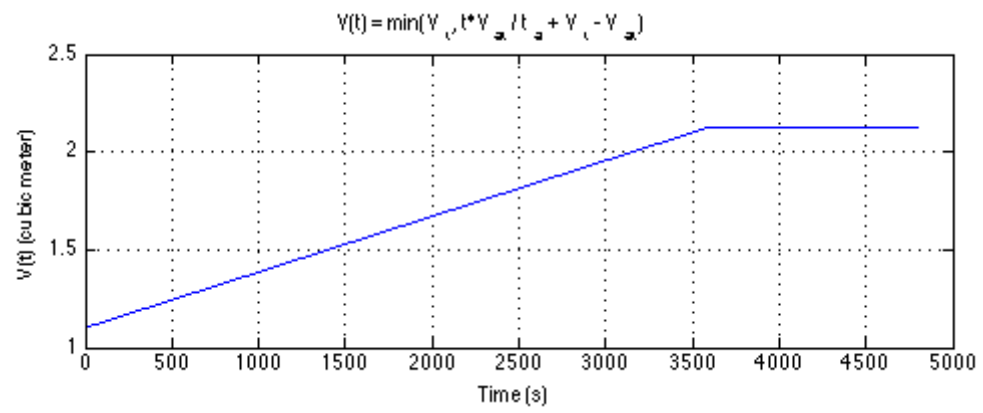
*Total input = 251.834 kg
Total output = 251.834 kg*

Chemical Balance Error = 0.000119019 kg (% 4.72609e-07)

*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) = 0.0267119
NB (final) = 0.00362141
NR (final) = 2.51905
NS (final) = 0.120905*

*Final Concentrations with Step Size limited to 0.01
NA (final) = 0.0267123
NB (final) = 0.00362134
NR (final) = 2.51905
NS (final) = 0.120904*



Published with MATLAB® 7.12