

```

function [dydt] = F1_cstr(t,y,p)

cA = y(1);
cR = y(2);
cS = y(3);

r1 = cA * p.k1;
r2 = cR * p.k2;
r3 = cA * p.k3;

% Annahme Fin = Fout
dcAdt = p.F1_in/p.V * (p.cA_in - cA) - r1 + r2 - r3;
dcRdt = -p.F1_in/p.V * cR + r1 - r2;
dcSdt = -p.F1_in/p.V * cS + 2 * r3;

%disp(['Zeit: ', num2str(t), ' cA: ', num2str(cA)]);

dydt = [dcAdt; dcRdt; dcSdt];
end

```