

### Reakce na katalyzátoru heterogenní

1m3 krabice            pA0=            101325 Pa  
                                  pP0=            0 Pa  
                                  pCelk=        101325 Pa

S katalyzátoru=            0.1 m2

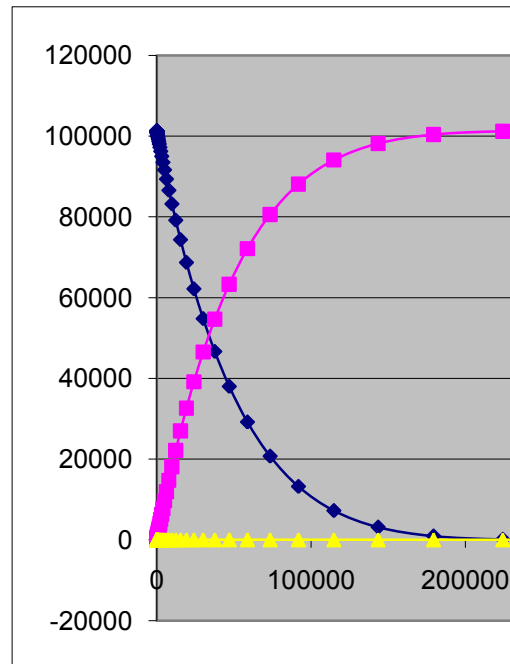
krok t                    1

expanze                1.25

stechiometrie            A-->P  
 Adsorpce: KA=        1.00E+01  
                                  KP=        1.00E+01  
                                  kr=        20

$$pP(t+\Delta t) = pP(t) + kr \cdot KA \cdot pA / (1 + KA \cdot pA + KP \cdot pP)$$

time	pA	pP	v
0	101325	0	19.99998
1	101323	1.999998	19.99959
2.25	101320.5	4.499946	19.99909
3.8125	101317.38	7.624804	19.99848
5.765625	101313.47	11.53076	19.9977
8.207031	101308.59	16.41301	19.99674
11.25879	101302.48	22.51553	19.99554
15.07349	101294.86	30.14322	19.99403
19.84186	101285.32	39.67712	19.99215
25.80232	101273.41	51.59337	19.9898
33.2529	101258.51	66.48693	19.98686
42.56613	101239.9	85.10114	19.98318
54.20766	101216.64	108.3646	19.97859
68.75958	101187.56	137.4373	19.97285
86.94947	101151.23	173.7677	19.96568
109.6868	101105.84	219.1644	19.95672
138.1085	101049.12	275.8848	19.94552
173.6357	100978.25	346.7456	19.93154
218.0446	100889.74	435.2594	19.91407
273.5558	100779.2	545.8046	19.89225
342.9447	100641.17	683.8348	19.865
429.6809	100468.86	856.1363	19.83099
538.1011	100253.86	1071.144	19.78855
673.6264	99985.671	1339.329	19.73562
843.0329	99651.336	1673.664	19.66963
1054.791	99234.816	2090.184	19.58741
1319.489	98716.341	2608.659	19.48507
1650.361	98071.635	3253.365	19.35782
2063.952	97271.014	4053.986	19.19979
2580.939	96278.408	5046.592	19.00386
3227.174	95050.313	6274.687	18.76145
4034.968	93534.774	7790.226	18.46231
5044.71	91670.557	9654.443	18.09434
6306.887	89386.73	11938.27	17.64355
7884.609	86603.069	14721.93	17.0941
9856.761	83231.852	18093.15	16.42867
12321.95	79181.871	22143.13	15.62927
15403.44	74365.73	26959.27	14.67864
19255.3	68711.724	32613.28	13.56263
24070.12	62181.557	39143.44	12.27367
30088.66	54794.609	46530.39	10.8156
37611.82	46657.852	54667.15	9.209535
47015.77	37997.247	63327.75	7.500066
58770.72	29180.962	72144.04	5.759868
73464.4	20717.596	80607.4	4.089331
91831.5	13206.68	88118.32	2.606793
114790.4	7221.7761	94103.22	1.425466



143489	3130.8883	98194.11	0.617989
179362.2	913.96258	100411	0.180402
224203.8	105.01199	101220	0.020728
280255.7	-11.17098	101336.2	-0.0022

$\rho P) * Sk * \delta t$

