Chap 4

$$(2) = 430/2$$
 $\frac{x}{1-x} = kt$
 $\frac{0.25}{0.75} = kt = 2k$
 $\frac{10.25}{0.75} = kt = 2k$
 $\frac{10.25}{1-x} = 4k$
 $\frac{10.25}{1-x} = 4k$

平年 1-0.4-0.6 = 60%

3.
$$|lm \frac{1}{1-0.2} = 3.2 \text{ kksook})$$
 $|ksook| = 3.94$ $|lm \frac{1}{1-0.2} = 12.6 \text{ k(260k)} = 3.94$ $|lm \frac{1}{1-0.2} = 12.6 \text{ k(260k)} = 12.6 \text{ k(260k)} = 0.07 \text{min}^{-1}$ $|lm \frac{1}{1-0.20 \text{ k}} = \frac{1}{1-0.20 \text{ k}$

Deb

Bals: 12.0 K7.mol-1 k(276.15) - 0.68 4. 分解性数与浓粒天美。;为6的级各个人 M K(276.15) = Ea (1/2 - 1/2) K(298.15) = Ea (1/298.15)

18 X= 248天即家温沙路的环花牧 K(276.15) X365= K(78.15) X

汉里 14天不完失之义。

\$\frac{1}{2} R(98)t = \frac{1}{6.68} R(276.15) × 14

k(27645)-34

10.4a = 2.26% a < 40% a = 1 0.49 X14 = 00226a

这两功物来失数效。

· MK(72) = Er (1-1)

of M 4.7 = En (1/0 - 650)

1 Ea = 1.20×105 7 mol" = 120 kJ.mol"

(1/2) = (1/2) = (1/2)

lm2 = 109.65×103 (400 - 12

肾 7= 408.6 K

 $\frac{185i2}{04} = 0 = k_2 [CH_3 T (H_2) - k_3 [H] [GH_6]$ $\frac{1}{100} = k_2 [CH_3 T (H_2)] = k_3 [H] [GH_6]$ CH3+1/2 Per CH4+ H (- [CSH6] = K2 [CSH6] + H+ C2H6] + (- [CH6] = K2 [CSH6] + C2H6] + (- [CSH6] + C2H6] + (- [CSH6] + (- [CSH K= [44]2 7 CSH6 \$ 2CH3

det = k2 C437CHJ+ k2 [H][C3H] = 2 k2 C48 JCH2) = 2 k2 K2 [C2H6]4 [H]

9. t= lng. th/lnz = ln 1-159, x20/lnz = 40 min t= ln 1.10×10-15 x 5720/m2 = 1656 \$4 8. max = k,t= th. t

= kc[na]" = kc (na) "= kc (na)". Pa" = kc[vm] = kc (py) = kc (py) ... Pa" 10. rc=kc[A]m

12. 2=1 13=0 8/5[A] -723 & CH. 5 CB] Z. X

k(wook) = thing = 1/48 = 9.83×103 51 KPM 11.(1) k(900k) = 4x.p = (500×38.2 = 1.68×10-5 5-149" 北与初松五九户。承叙地·为二级农业即 4= 120g

= 1.33×10 \$ 7. molt = 133 KJ. molt (2) lm 472) = [m (1/2 - 7,) Ea = (m 1.68×10-5 × 8.314 / 1000 - 400

k(1020)= 7/8-12 = 48.1×212 = 9.81 ×10-\$5-1-1/8-1 11)k(967k)= txp = 156.8 x380 = 1.68 x10-5 5.4pm (2) Ea= lm 468 × 8.314 (1/20 - 967) = 2.32×105 J.mol 7

4.1+圣二645 X=20.8 KA (3) 2N2O(g) = 2N2(g) + O2(g) + n t41 t=t 54.1-x x

54.1-20.8 - 4.1 = 9.81×10-6. t a-x - - - k2t

5 811 =7

- = 15 mol = 12 15 (6H64+ 42 -> \$ k1 > 0-(6H442 (3) K= 1 8×10-3 [NO][U1] = 8×10-3 14 (1) XTFNO \$253. (4= 15/15) (2) }= k[NO]2C(4=]

to 0.5md[0.5

Pully de 0-(6444 t=25min 0.25 0.25

 $\frac{V_1}{V_2} = \frac{0.1}{0.15} = \frac{2}{k_2} = \frac{2}{3}$ $\frac{V_2}{V_2} = \frac{0.15}{0.15} = \frac{2}{k_2} = \frac{2}{3}$ $\frac{-4363}{363} = \frac{2}{m_3} = \frac{2}{3} = \frac{2}{(k_1 + k_2)} = \frac{2}{15}$ R1=0.011 min" | p=0.017 min"

16. 更收益为二级股本有 d-x - d = kt

解降 X=79.7% 1-x-1= k/t 1-90% -1 = kt

slope=0.04832 5(h) =0.04832++ 1=kt+9 (2) TV, KV, VV (3) EaV, KT, IT (4) か2入C, 若对于已经建立平线5m体分 11) 「梅如中海 10人品 0,35 R=0.04832 mmol-1.4.h-1 - 48,52 h-mol- L · 及左为二级 n=2 ナーナがは 5) 1不多 18. 1年图相