Rp= Kp NZ [m] (III)

N= number of palymen paulicles per cubic contineter of aqueous phuse Rp= homogeneous peropagation wake constant

(m) = monomer. Concentration in the polymen particle.

Dequee et Pulymenticus

Kp = Propagenion onstern.

Mi= reve al generation of

Porimary radiculy.

$$\frac{\partial p}{\partial r} = \frac{\partial p}{\partial r} = \frac{kp (m)}{2n!/N}$$

KB-mith and 1-125- love 3 91 = N= K [41) 0.4 (ds [E]) 0.6 where 12 = Constant with a value between 0.4 and 0.53 Us= is the mede of incorporate involume of a Palymen partides. 95: 15 the Enterfacial agreed occupied by an emulsific moderates

(F) = goop du concentration. Unit - (9)-

In From the Hinem clerta givan below four sue pomulian Palymei routi'an Styrene. in wester at 60°C

- Ca) (alculette que rote of palymetretic
- (b) ghow their the number avaight deguese of palymeiralian XII- 3.52×103
 - (C) primbor up Estimate the no Polymer Chain in Each derta,

5+1012 vadiculs CC-15-1 Kp=176 mol-15-1 N = 1013 pautales cc-1 [M]= 10M-Later particle Stze = 0:10 11m Partiale deubity = 1,29/cc Rpckp L (m') John Hich 12p= 1761 = 10 Mal game 176 (1000CC) (Mol-5) e 10 mal (1000cc) = 1,76×10⁵ CC mol-s 2 16 Raphicle. 6.028×1021
Pauticle = 1.66 × 10-11 mal 3.

Rp = 1.76 ro 5 (M3) (1.66 x10-11 mal) (ro-2 mod) (ro-2 mod) (ro-2 mod) (ro-2 mod) - 1. U6×10-8 mal cc-15-1 Kn - Kpn [M) 21: 5×10-12 hardicals - [mal]
Cm3 s - 6.093×1023 = 6.17 - growth

growth

growth

CM25. Tr = (1.7 6×105 (m)) (1.66 ×10-11 mal) $(10^{-2} \frac{\text{mod}}{\text{cm}^{3}}) (\frac{10^{12}}{8.36} \frac{\text{cm}^{3}-5}{\text{mod}})$ = 3.52×103 O volume of partialls - 3 Try3 9= 0:05 Mm = 0:05 × 10-1 - 411943 - 4,194 (5×10-6 cm)B - 5-24×10-16 Cm3

Density of each palifical =1,2 glca mall of each pact = 1,29(cm 3 (5, 24 ×10 - 16) - 6.29-610-16 Min of Styloud = 104 6.29 NO-16 & (18 mal manomen) 6.05\$ 16-18 grad war ami Z - 6.05 Pro- 18 gimel monomer J normand (6.023 K1023 3.52×103 monomen Poncharia

Proc.1! N. -, 3.5 ×103 Chair Per Partially 3.61 ×106 monor (03 × 163 chair 103 + 103 chair)