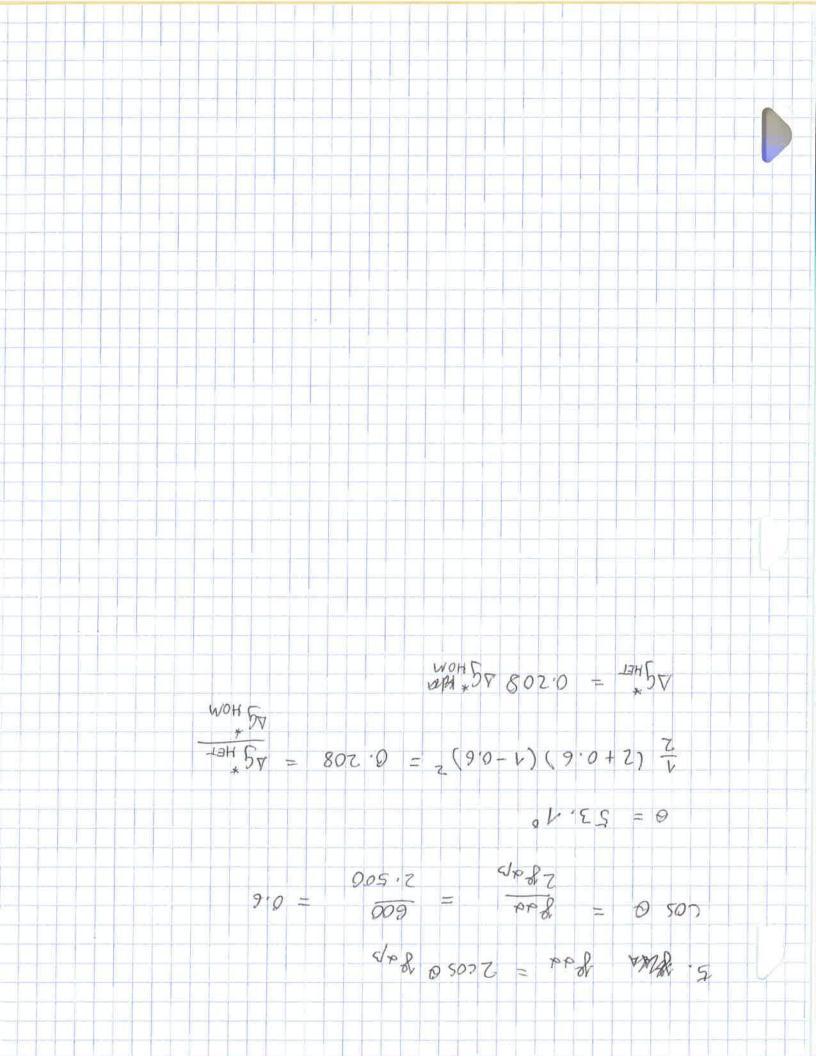
3 = 1 = 1 = d V JPZ-1-44 = (&1-4 8/4)p = NP JPJ48 = (2144) p = Ab For spherical precipitates, Abel = 9A interfacial energy godA = APdV At equilibrium, change in energy = 0, so change in NP9 V precipitate: to Abworp Inmissatinitain primb snow Arow . I EMH Mitted Rathkginen

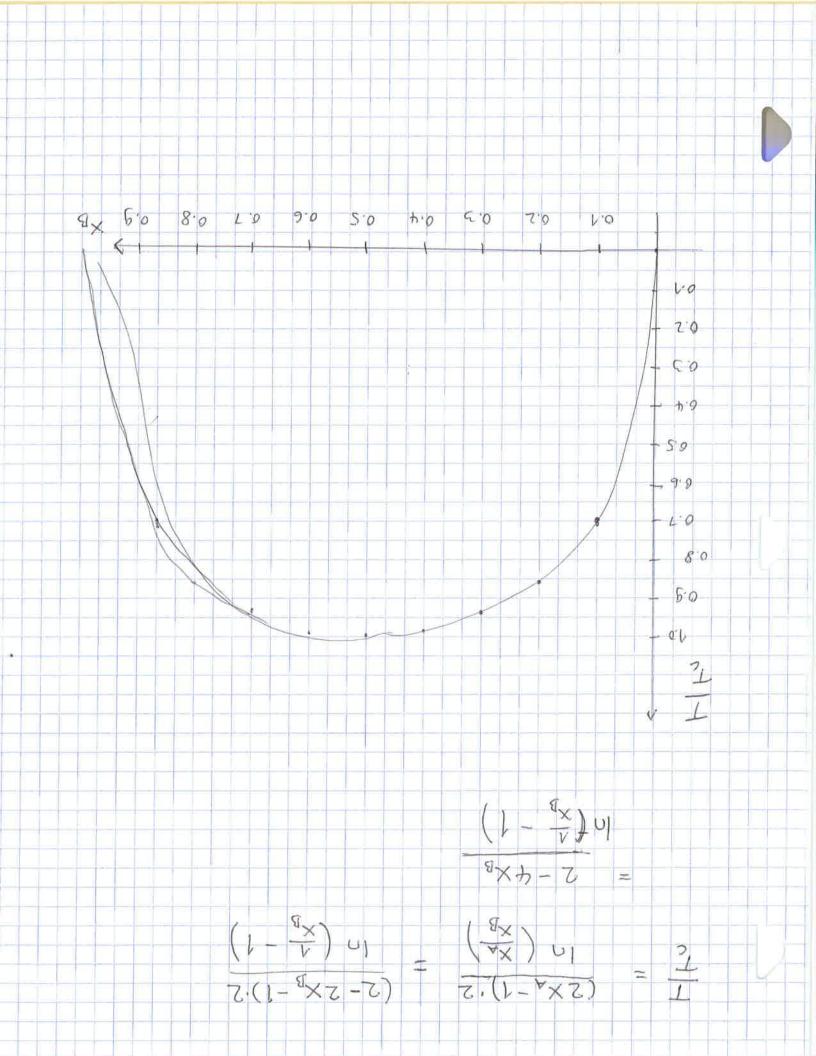
which fueled the diffusion - driven growth. tot smaller atoms, leading to chemical gradients, organd that interfacial dislocations acted as a sink mismatch uns varied with Mo - alloying. Jang explained the deviation from LSW theory. This level of sariful of pur of woon for 429 busin hay Mackay et al, argued that classic strain consed slow diffusion in the yell interface, Theory to be so Tang et al, , the rate is controlled by whether square or cube rate law applies. According The 2 papers could not definetively determine volume fraction of the graving phase is close to zora. of a small and large particle, where the ite vin theory was derived for the interface (L) & a Kt : 6 rid. mil - odor 2 If adsorption of atoms to the particle surface (Ux Kf conserving is rate-limited by diffusion, have a lower grea-to-volume ratio, If the process 291 SMAIL ONCS. This is becomed larger particles of large particles and the disappearance 47m026 242 0g fo UDIZEZIWIUM surface energy of particles leads The LSW theory states that WELL sAT

140 Jumsin Down Buismos Moitotnaiso ning on sonsition po besines of how sight forester. This may be conseed thoting ad of bomusso ad now 40 and sonis On boundary c, radius is bigger than on A or B. c). r = 28 (driving force for mucleation) inside the matrix. poisos for then the buildup " of nodercooling phoponod sus of xisput and most strample privately to noisely show nother in other words, depletion of snapyaboury asam justas the crystal where hamagehous to lovel a trousing stange of (noisettib of noidels) ui) appears was sond tenn poilos satt cd 1 parshis so of poulsof in to possible on precipited te grain interface replaces an equal replaces a grain grain interface than when is smaller when the precipitate - grain interface wassys sat to upractacial energy of the system 3. 1) The precipitate formed on the grain boundary,

Ut. Atoms above the solubility limit of the matrix will diffuse to the boundary. Less "new," interface energy is created when precipitates form at the boundary. The segregated corposition may favour the precipitated to the precipitates.



 $\frac{\langle (1 - 2 \times_A + 1) \rangle}{\langle \frac{\lambda^{\times}}{\delta} \rangle} = \frac{\langle (2 \times_A - 1) \rangle}{\langle \frac{\lambda^{\times}}{\delta} \rangle}$ 6 = ((xx/n)) TA + 8/(1+ A×5-) (3 45 = 45 = L + · LX + 8/2 - = (5'0-V + 5'0) LX + 8/2 - = 0 (9 $= -2\beta + RT \left(\frac{1}{\lambda} + \frac{1-\lambda}{\lambda} \right)$ $\frac{1}{9} \times \sqrt{\frac{1}{4}} = -2 \times + 2 \times \left(\frac{1}{4} - \frac{1}{4} \right)$ $= (-2\times_{A}+1)_{\beta}+8T(\ln \times_{A}+1-\ln (N-\times_{A}))$ $= (-2\times_{A}+1)_{\beta}+8T(\ln (\times_{A}\times_{A}))$ $\left(\left(\frac{1}{A\times -1}\right)(A\times -1) + ((A\times -1)\cap 1)(I-) + \left(A\times -1\right)$ 1. 4x + 4x nl) TA + 8/(1 + xx s-) = 2x + xx + xx nl) TA + 8/(1 + xx s-) = 2x + xx + xx nl) ((AX-N) A) (AX-N) + AXA/AX) TA + E/(AX + AX-) = ((x-r)n)(xx-r) + xxn1xx) TR + & (xx-r) xx = # # 6 (&X M &X + AX M AX) TR + E/ EX AX = xim BA 6, a) Regular solution:



E=U' Z BN 4-1 = X ((2X -) dx = -) =) E725N 410-= 4/1-= (1-1)41 2PNA 2(2-7) 254-6=4P Some TAP 4.214 = N (2 646, (no nucleation) and growth happens in 3 dimensions. 15 constant, or that sites are saturated growth is limited to 2 dimensions and nucleation JUHA Sailgri E=A, Don 200 noworms Stie on cleation site and whether there is site b) The Aurani exponent may help determine not impinge on one another. pinom suips out fi uadday pinom zpyz yznosó The extended volume is the amount baboax sa sit muclei come in contact with each other. STAM 1 ATWORD TO REPORT STABLES OF GROWTH, WHERE raper doct not depend on the extent of transferration 47mos B 247 7649 samsso broays XXWE all