

















Barrier of Heterogeneous Nucleation

$$\Delta G_{het}^{*} = \left(\frac{16 \pi \gamma_{sl}^{3}}{3 \Delta G_{v}^{2}}\right) \cdot \frac{\left(2 + \cos^{3} \theta - 3 \cos \theta\right)}{4}$$

$$\Delta G_{het}^{*} = \Delta G_{hom}^{*} \cdot S(\theta)$$

$$\Delta G_{bet}^{*} = \Delta G_{hom}^{*} \cdot S(\theta)$$

$$\Delta G_{sub}^{*} = \Delta G_{hom}^{*} \left(\frac{2 - 3\cos \theta + \cos^{3} \theta}{4}\right)$$

$$\frac{V_{A}}{V_{A} + V_{B}} = \frac{2 - 3\cos \theta + \cos^{3} \theta}{4} = S(\theta)$$
How about the nucleation at the crevice or at the edge?



















