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surface area changes as a result of the movement of atoms to the surface from the bulk. • Since surface tension is

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always positive, the surface free energy

is always positive.  $dG = -SdT$

$+VdP + gda$   $dG_{T,P} = gda$   $a a a a a a a d G d$

$G G dG T P s s T P s T P \partial \partial = + \partial \partial = , , ,$

$0, = \partial$

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surfaces are often treated by first determining the surface configuration that minimizes the internal energy. The effect of thermal fluctuations are then accounted for by minimizing the free energy with respect to all possible surface configurations (e.g., all possible functions of the surface height,  $h(x, y)$ ).

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