



Images of the surface of iron obtained following an in situ experiment using the heating stage shown in Figure 6.16. The effect of oxidation in water vapor is shown in (a) while the effect of reduction in hydrogen/carbon monoxide is shown in (b). In (a) the formation of an oxide layer is found to depend on the underlying grain structure, with the layer being thicker at the grain boundary. Horizontal field width = 45 μm .