South Dakota School of Mines and Technology Department of Materials and Metallurgical Engineering

Met 426/526 Homework 03_D^{eff}

1. Compute the slope of the line in Figure 2.11 (MST&S/Ironmaking) for the 900 °C line assuming that H2 diffusion in H₂O vapor through the product layer is rate controlling. Compare to the slope in the figure. Assume $\varepsilon/T = 0.6$.