

ME 301: Structure and Properties of Solids, Spring Semester 2009

Quiz #4 February 4, 2009

Name:

#1- Calculate the attractive force between a pair of K^+ and Br^- ions that just touch each other. Assume the ionic radius of the K^+ ion to be 0.133 nm and that of the Br^- ion to be 0.196 nm.

#2 - Calculate the net potential energy for the $K^+ Br^-$ pair by using the b constant calculated from the previous question. Assume $n = 0.95$.