

ME 301: Structure and Properties of Solids, Spring Semester 2010

Quiz #4 February 3, 2010

Name:

#1- Gold is FCC and has a lattice constant of 0.40788 nm. Calculate a value for the atomic radius of a gold atom in nanometers.

#2 - Draw the following crystallographic planes in an FCC unit cell. List the position coordinates of the atoms whose centers are intersected by each of the planes: a) (100), b) (110), c) (111).