Characterization of Materials 635:309

NAME		Dr. Garofalini
See due date on Wel	osite Syllabus	
ANSWER ON THI	S PAGE ONLY	
1 What is the Prove	is lattice for this exyste	.19 A N.S
	is lattice for this crysta	 ;
-	o for this crystal? ANS	
•	•	n this crystal unit cell? ANS
4. How many atoms	are in this unit cell? A	NS
Data Table 12: FeB Orthorhombic, space	` /	a = 4.053Å, b= 5.495, c= 2.946Å; Z =
$V = 65.61 \text{Å}^3$		
Atomic Positions:		
Fe in $4(c)$:	$\pm(x,y,1/4;\frac{1}{2}-x,1/2+x)$	x,1/4); x=0.125, y=0.180
B in $4(c)$:	x=0.61, y=0.04	,
` /	* •	