



Question 3: Find the angle betweer	n the <mark>(001)</mark> and	d the <mark>(111)</mark> pla	ne in a crystal.
Answer. The angle is 54.7 degrees.			



Question 5:	
Consider three sa Which of the thre electrons in the c	amples of very pure crystalline Ge, Si and GaAs. e materials features the highest number of conduction band (assume T=300 K) ?
Answer:	interest number of electrons in the conduction because
Ge reatures the r (Ge possesses the highest number of	Ignest number of electrons in the conduction band he lowest band gap energy and thus has the of thermally excited conduction band electrons)

