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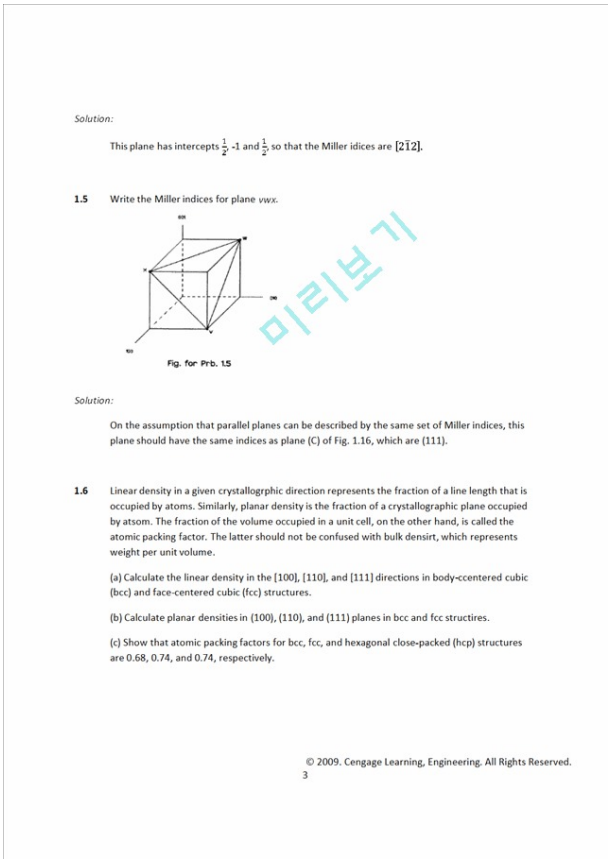

Solution:

This plane has intercepts $\frac{1}{2}$, -1 and $\frac{1}{2}$, so that the Miller idices are $[2\bar{1}2]$.

1.5 Write the Miller indices for plane *vwx*.

Fig. for Prb. 1.5

Solution:

On the assumption that parallel planes can be described by the same set of Miller indices, this plane should have the same indices as plane (C) of Fig. 1.16, which are (111).

1.6 Linear density in a given crystallogrphic direction represents the fraction of a line length that is occupied by atoms. Similarly, planar density is the fraction of a crystallographic plane occupied by atsom. The fraction of the volume occupied in a unit cell, on the other hand, is called the atomic packing factor. The latter should not be confused with bulk densirt, which represents weight per unit volume.

(a) Calculate the linear density in the [100], [110], and [111] directions in body-ccentered cubic (bcc) and face-centered cubic (fcc) structures.

(b) Calculate planar densities in (100), (110), and (111) planes in bcc and fcc structires.

(c) Show that atomic packing factors for bcc, fcc, and hexagonal close-packed (hcp) structures are 0.68, 0.74, and 0.74, respectively.

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