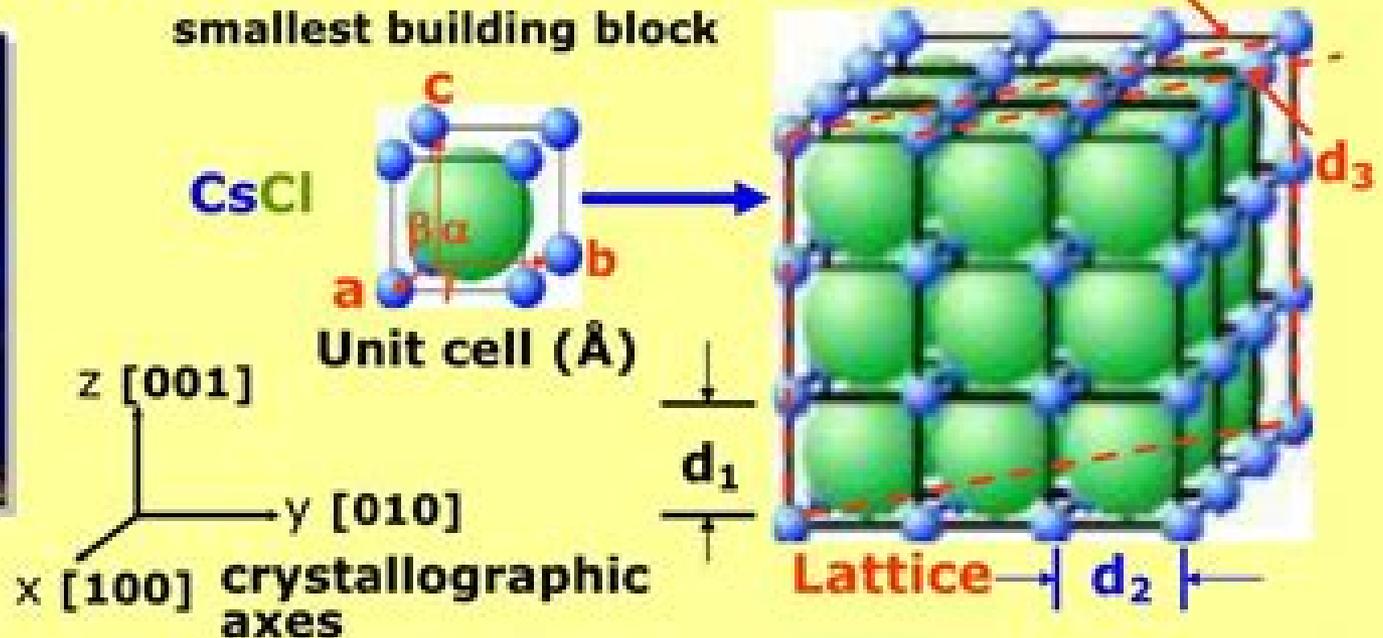


# Basics of Crystallography



A crystal consists of a periodic arrangement of the unit cell into a lattice. The unit cell can contain a single atom or atoms in a fixed arrangement.

Crystals consist of planes of atoms that are spaced a distance  $d$  apart, but can be resolved into many atomic planes, each with a different  $d$ -spacing.

$a, b$  and  $c$  (length) and  $\alpha, \beta$  and  $\gamma$  (angles between  $a, b$  and  $c$ ) are lattice constants or parameters which can be determined by XRD.

# Basics Of Crystallography And Diffraction

**Jiyuan Zhang**



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