

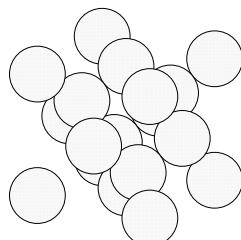
Experimental

Specimen

Si

Diamond-type

$$a = 0.54307 \text{ nm}$$

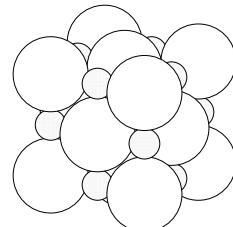


prepared by cleaving a Si (001) wafer along the $\{110\}$.

MgO

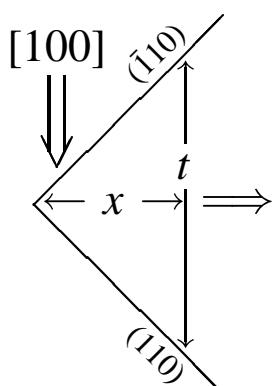
NaCl-type

$$a = 0.42112 \text{ nm}$$

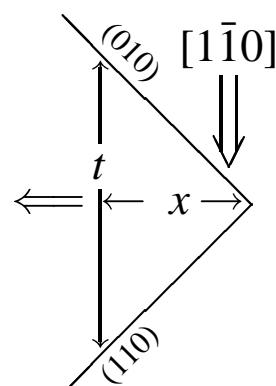


prepared by burning Mg in air.

Observed direction



The crystal thickness t can be derived as a function $t = 2x$ of the distance x from the edge.



The crystal orientations were exactly adjusted by Kikuchi lines.

Observed diffraction spots

