Introduction

MENU

Introduction

Surface Structures

- simple cubic(110)
- simple cubic(111)
- fcc(110)
- fcc(111)
- bcc(110)
- bcc(111)
- simple cubic(100)
- hcp(0001)
- fcc(100)
- hcp(11$\bar{2}$0)
- bcc(100)
- hcp(10$\bar{1}$0)

Diffraction Patterns

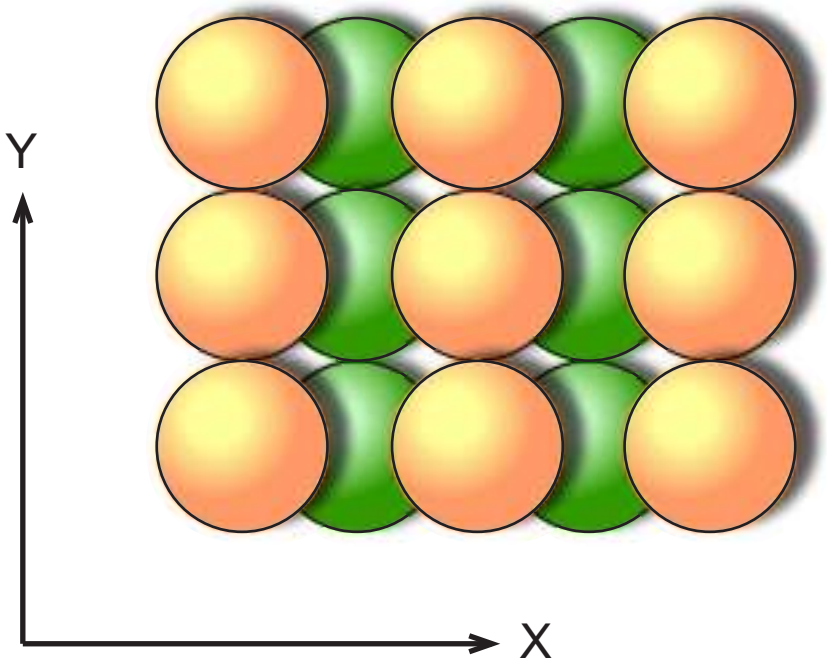
- simple cubic(110)
- simple cubic(111)
- fcc(110)
- fcc(111)
- bcc(110)
- bcc(111)
- simple cubic(100)
- hcp(0001)
- fcc(100)
- hcp(11$\bar{2}$0)
- bcc(100)
- hcp(10$\bar{1}$0)

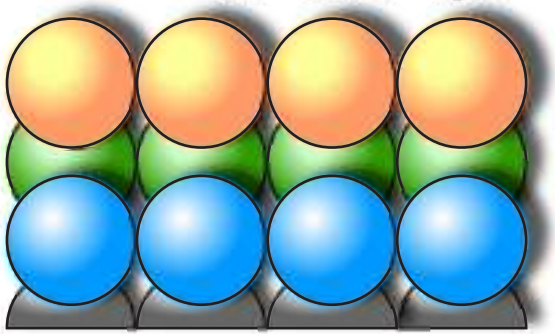
simple cubic(110)

- Surface view

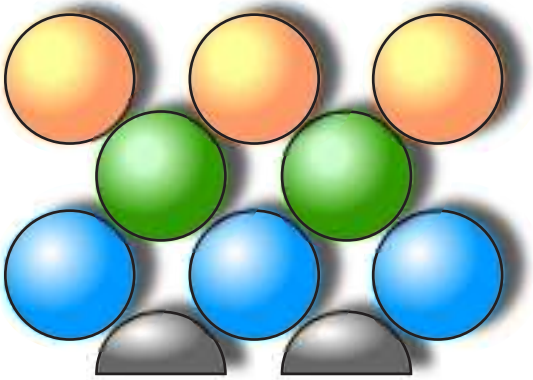
Diffraction Pattern

a = unit cell length





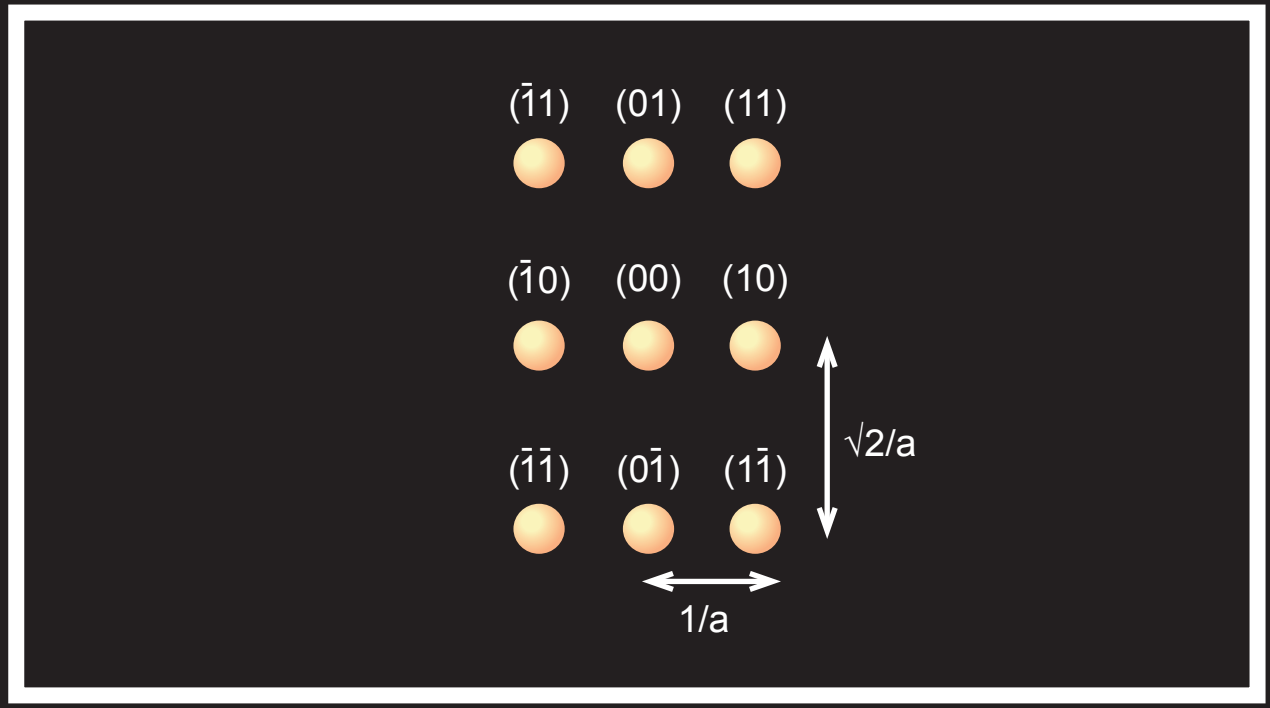
y-Plane Cross-Section



x-Plane Cross-Section

Menu

Simple Cubic(110)

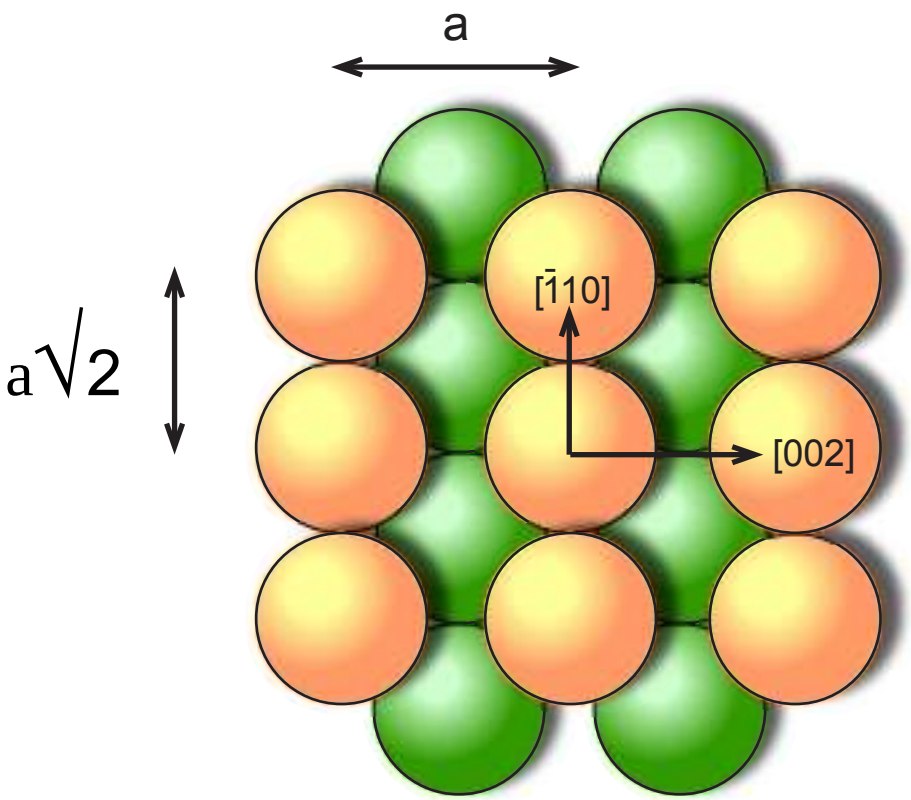


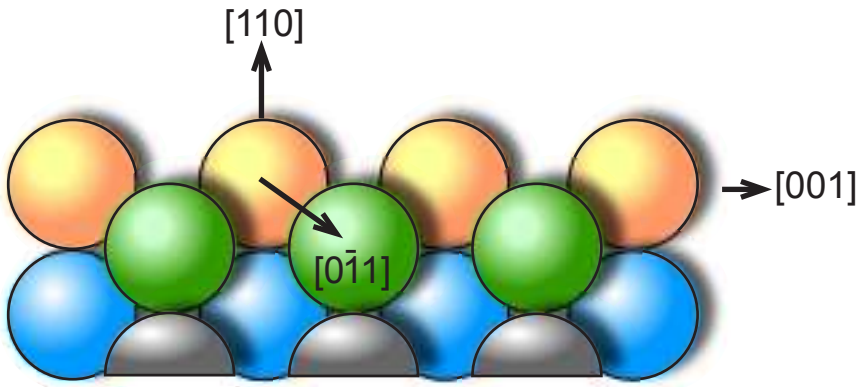
Diffraction Pattern

fcc(110) - Surface view

Diffraction Pattern

a = unit cell length

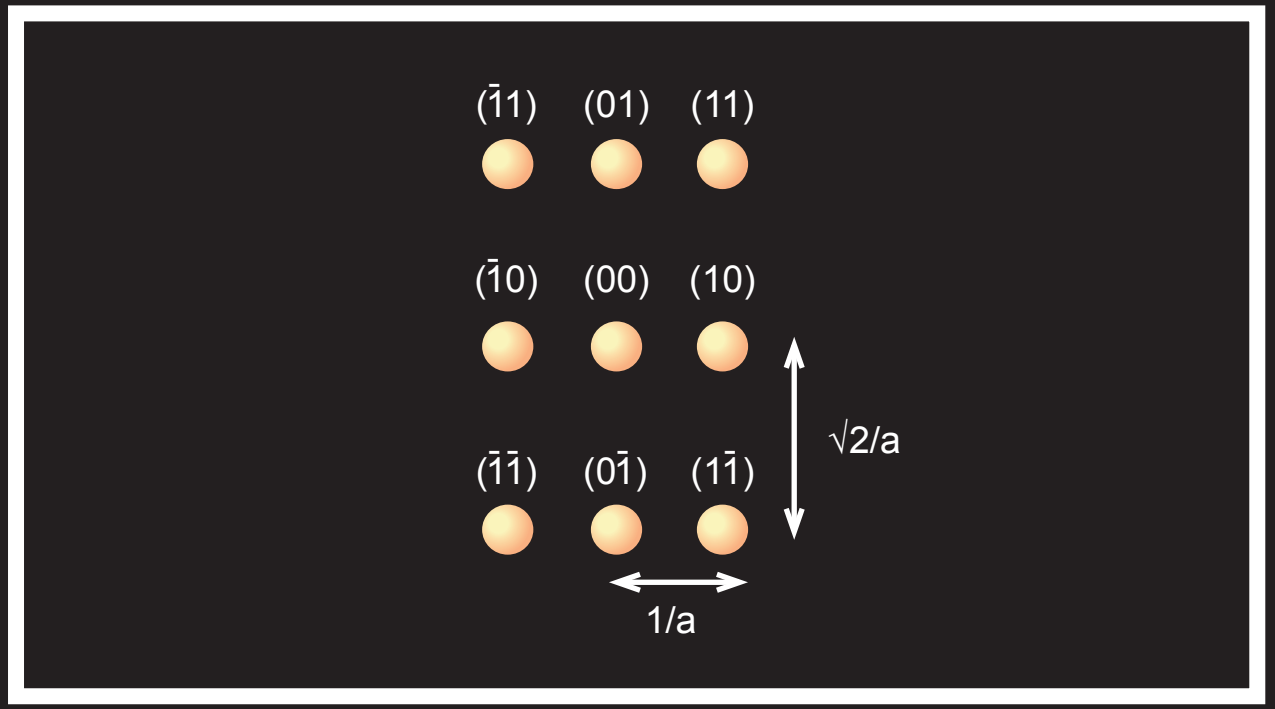




Cross-Sectional View

Menu ← → Overlayers

fcc(110)

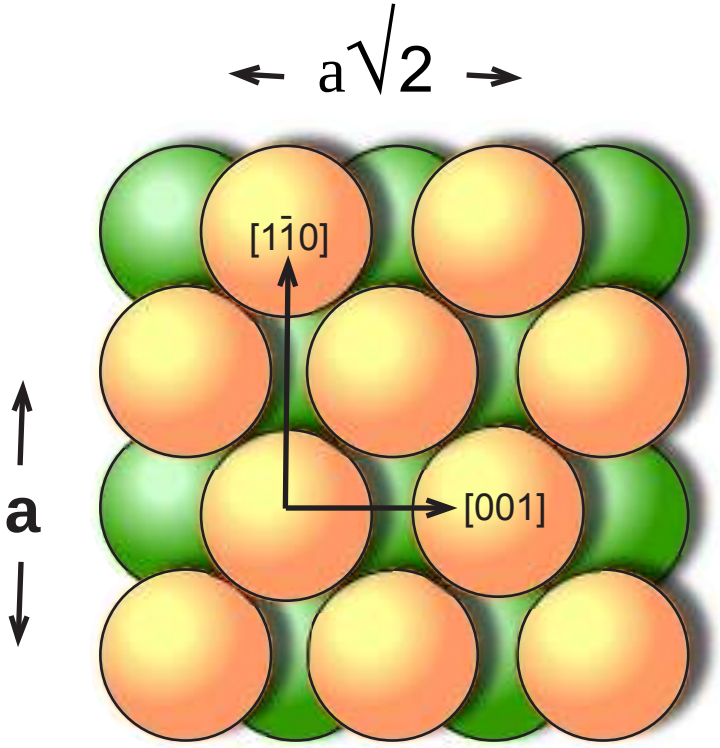


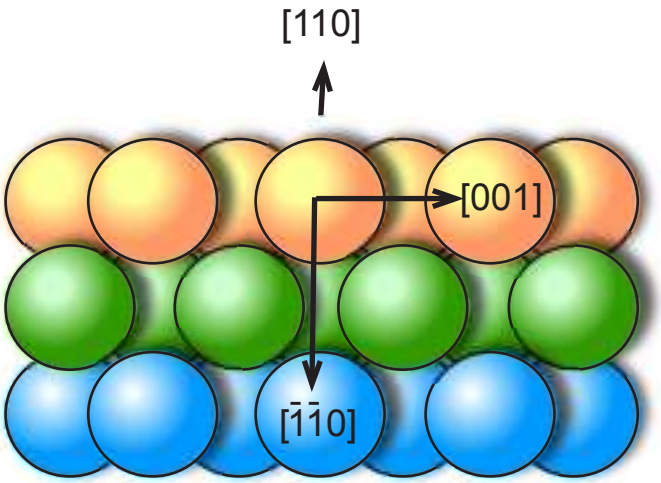
Diffraction Pattern

bcc(110) - Surface view

Diffraction Pattern

a = unit cell length

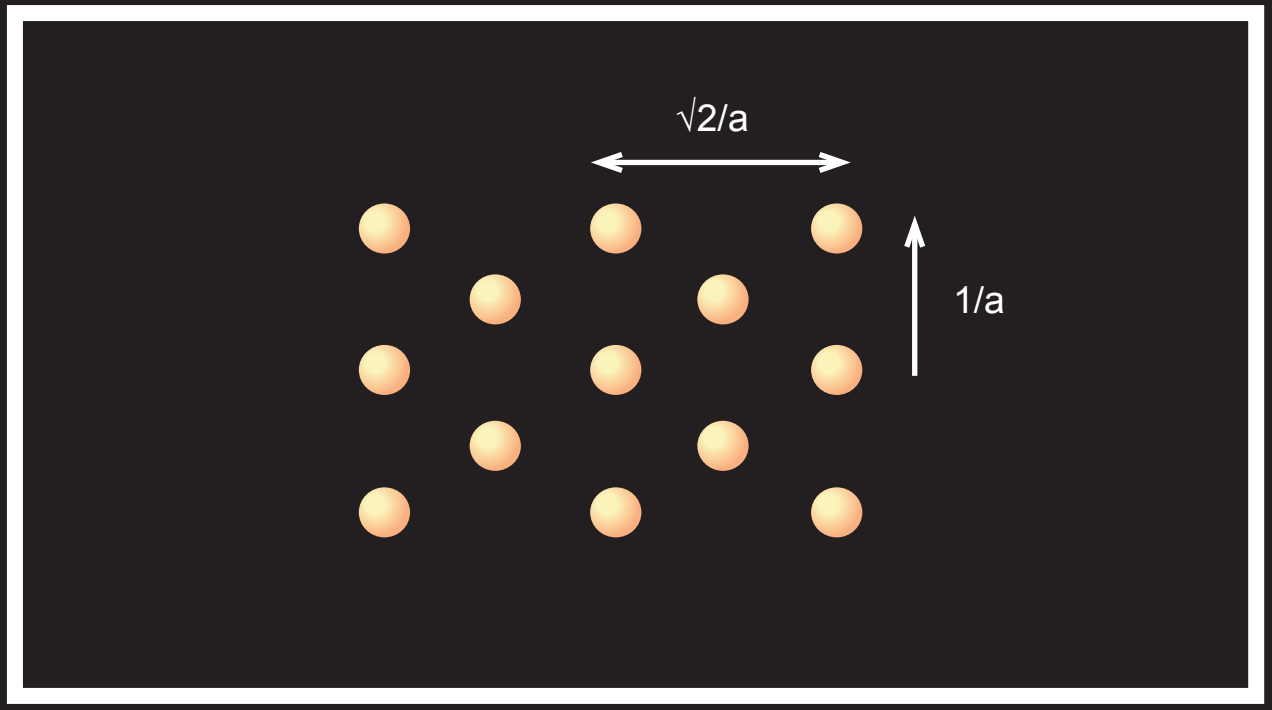




Cross-Sectional View

Menu ← → Overlayers

bcc(110)

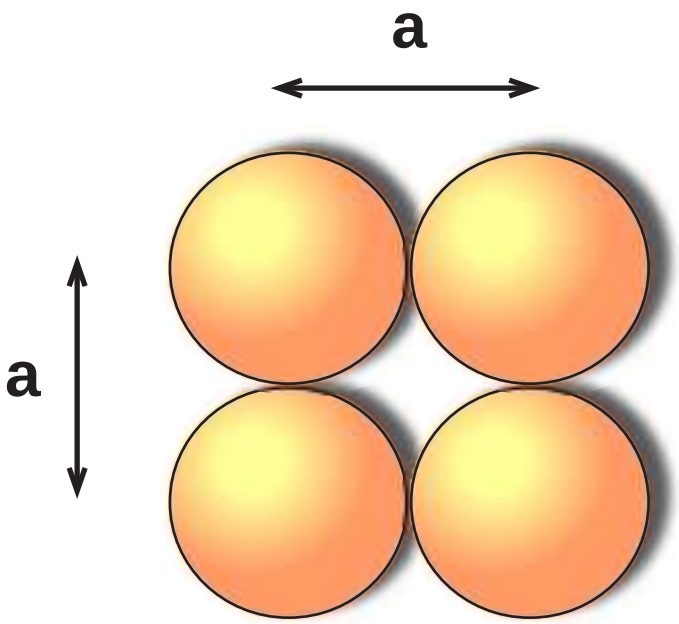


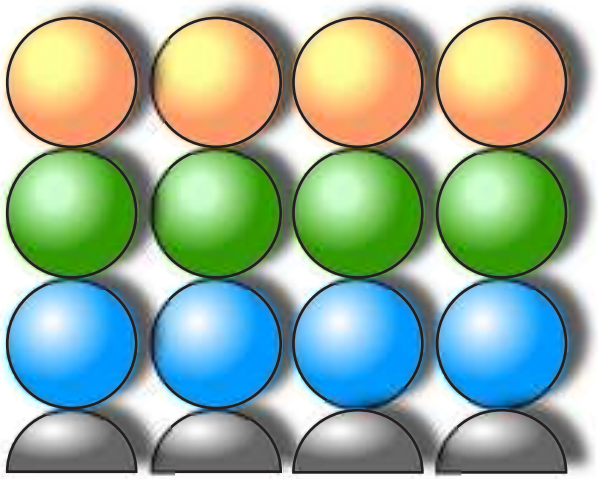
Diffraction Pattern

simple cubic(100) - Surface view

Diffraction Pattern

a = unit cell length

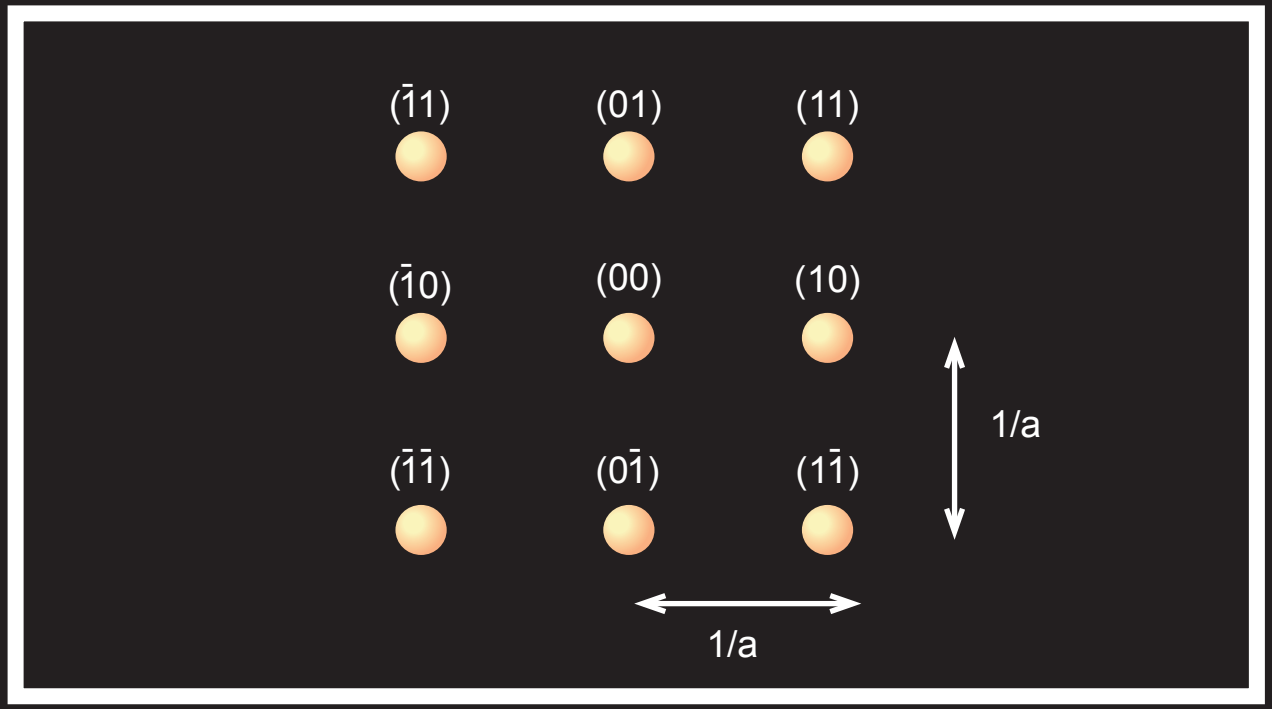




Cross-Sectional View

Menu

simple cubic(100)

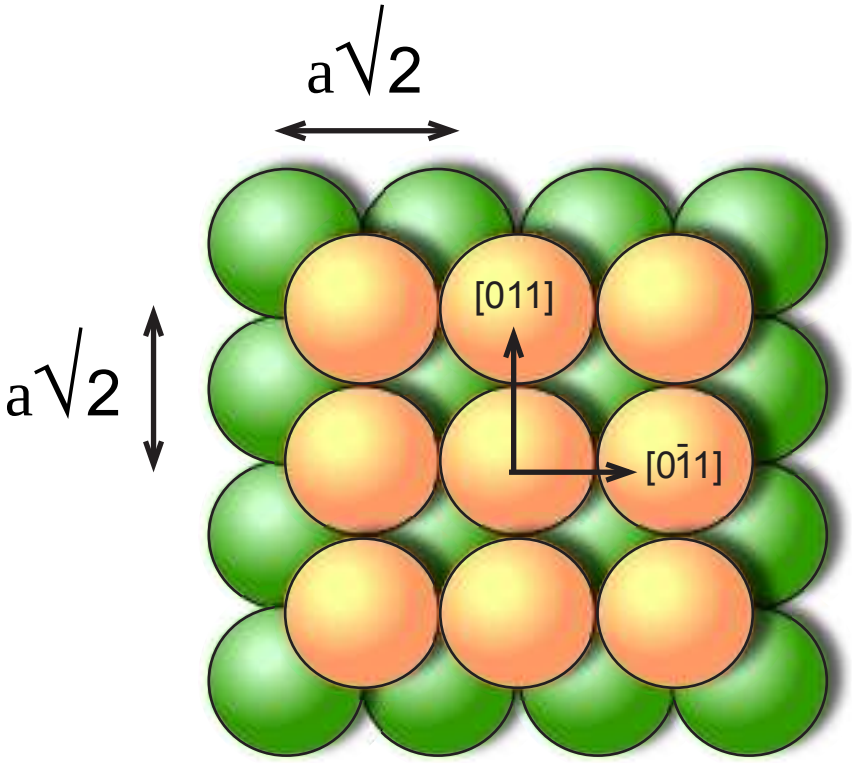


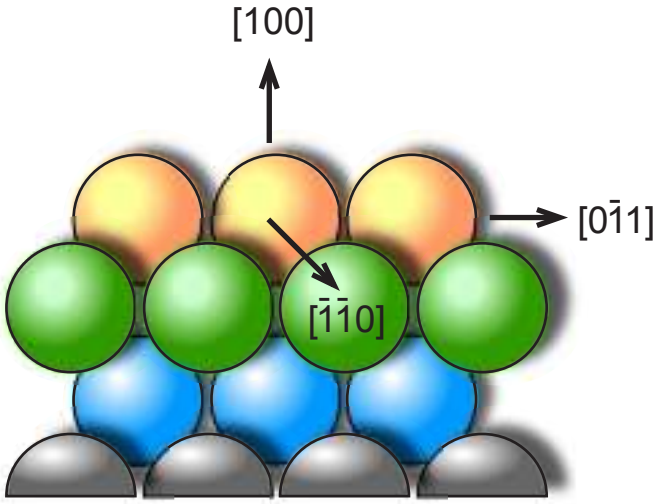
Diffraction Pattern

fcc(100) - Surface view

Diffraction Pattern

a = unit cell length

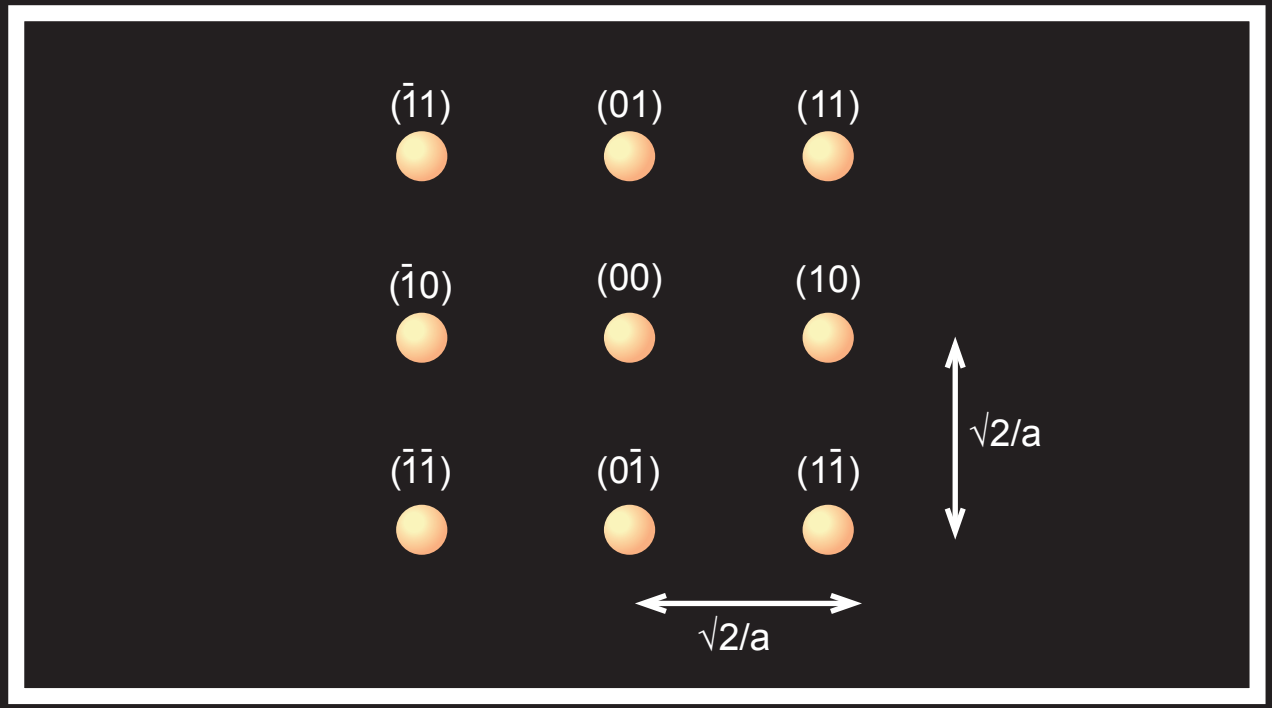




Cross-Sectional View

Menu ← → Overlayers

fcc(100)

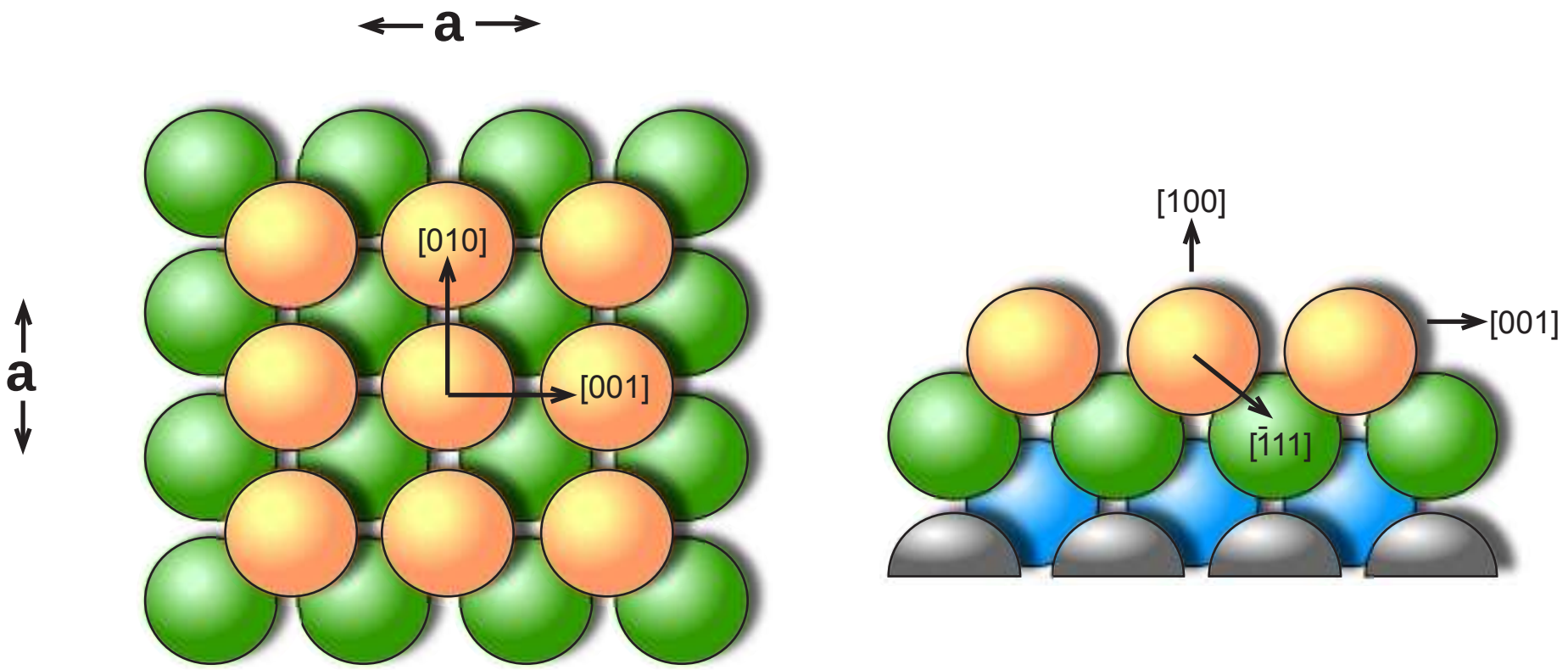


Diffraction Pattern

bcc(100) - Surface view

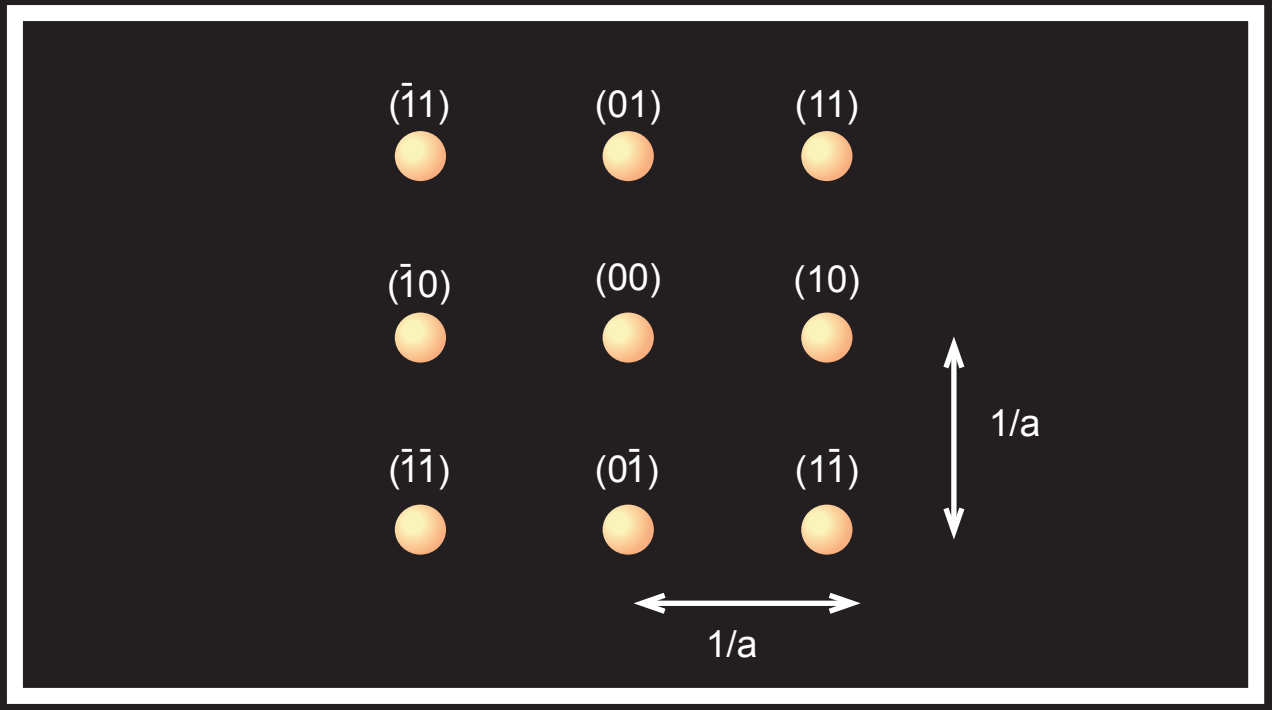
Diffraction Pattern

a = unit cell length



Menu Overlayers

bcc(100)

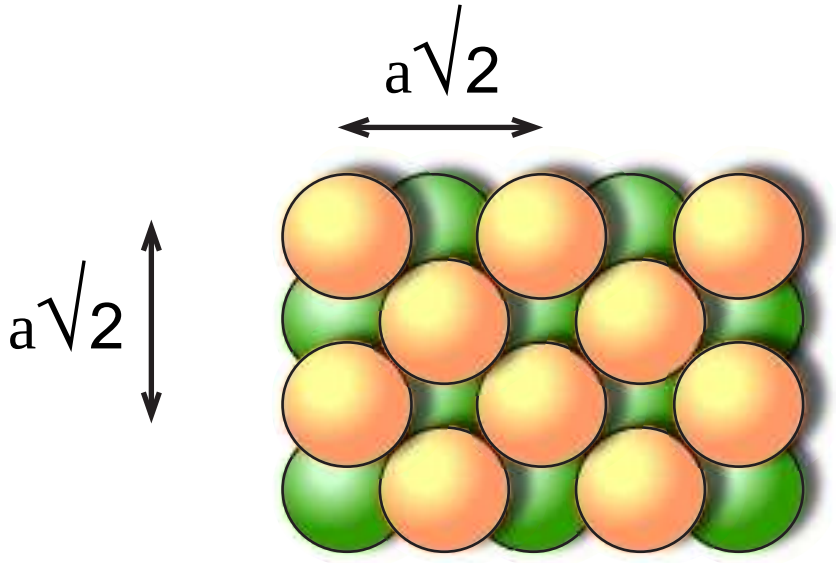


Diffraction Pattern

simple cubic(111) - Surface view

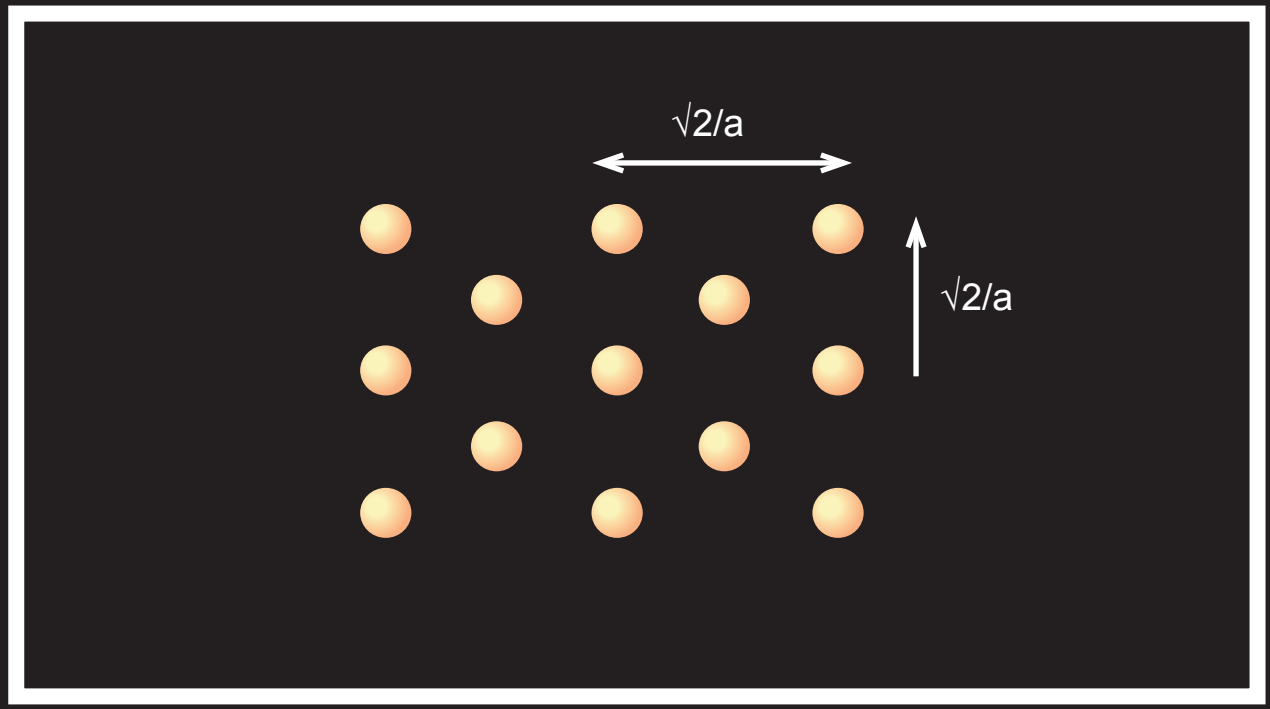
Diffraction Pattern

a = unit cell length



Menu

simple cubic(111)

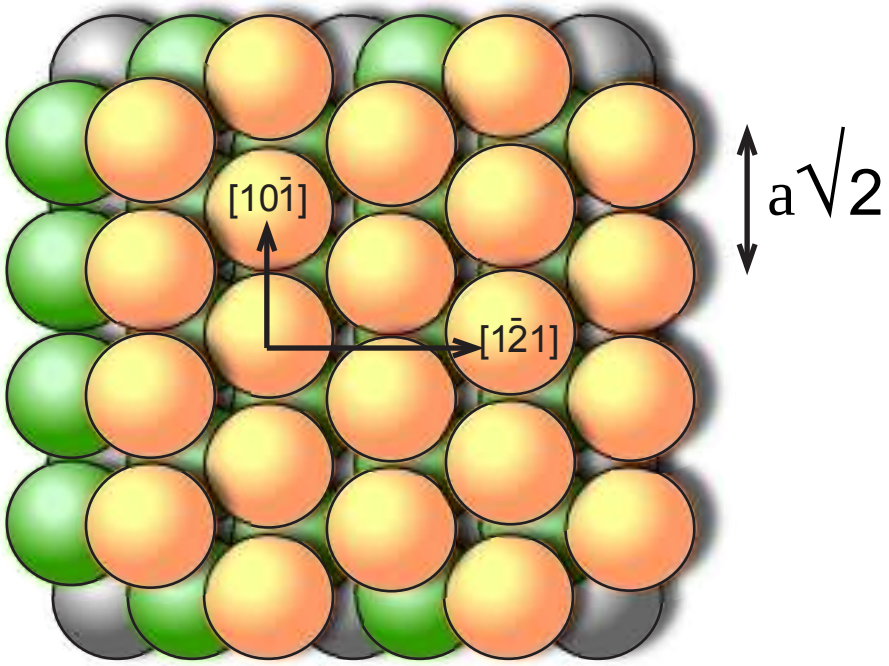


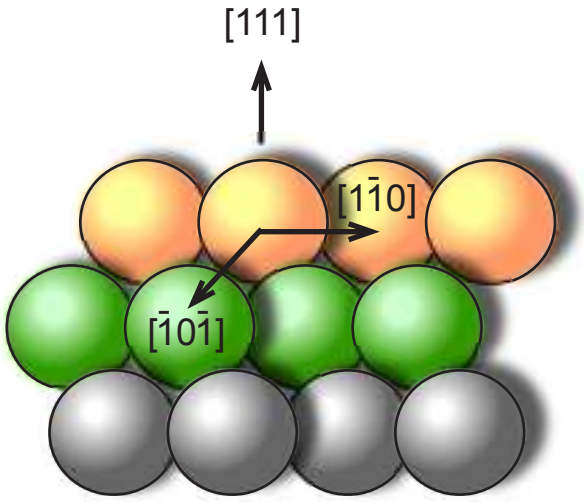
Diffraction Pattern

fcc(111) - Surface view

Diffraction Pattern

a = unit cell length

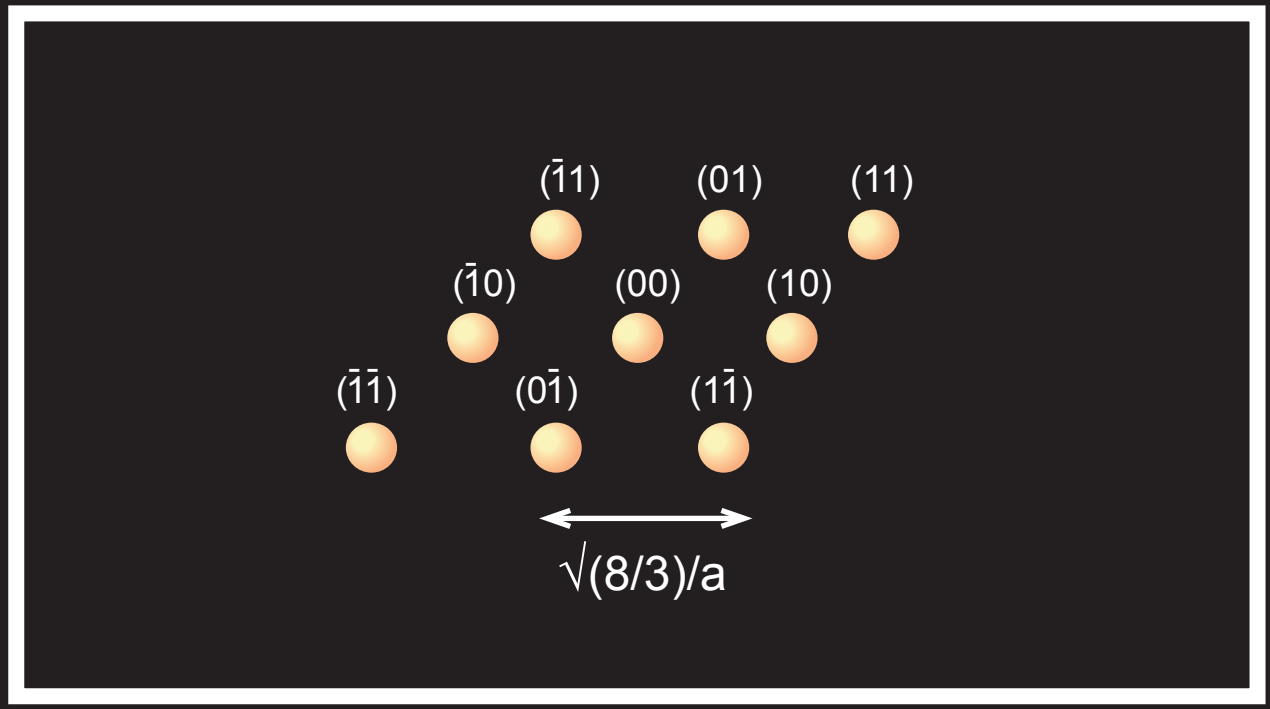




Cross-Sectional View

Menu

fcc(111)

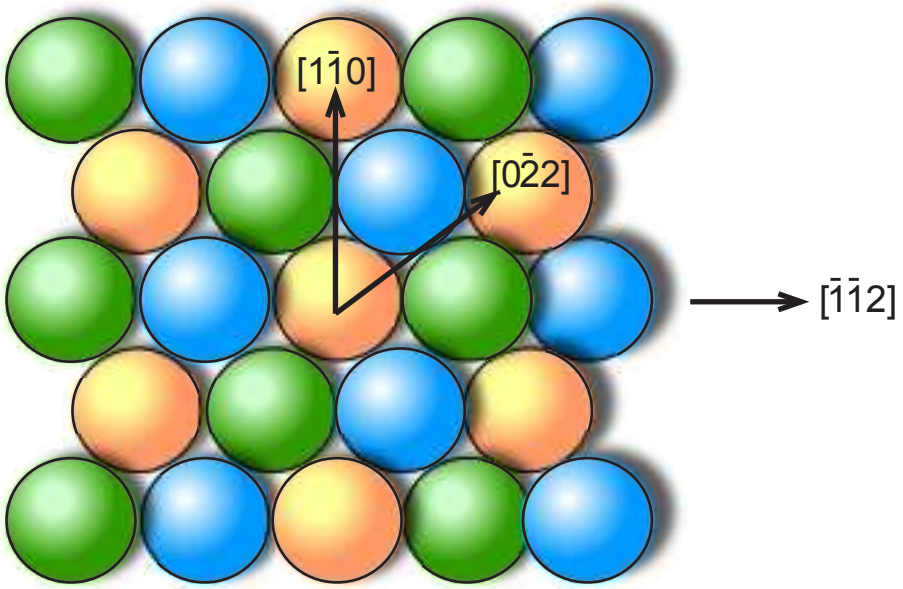


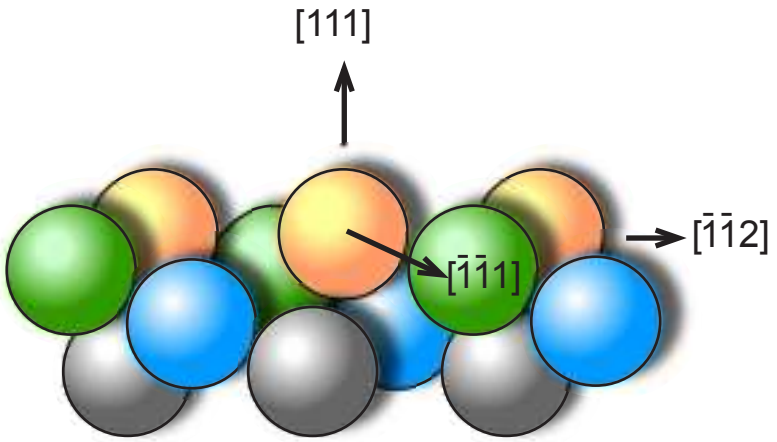
Diffraction Pattern

bcc(111) - Surface view

Diffraction Pattern

a = unit cell length

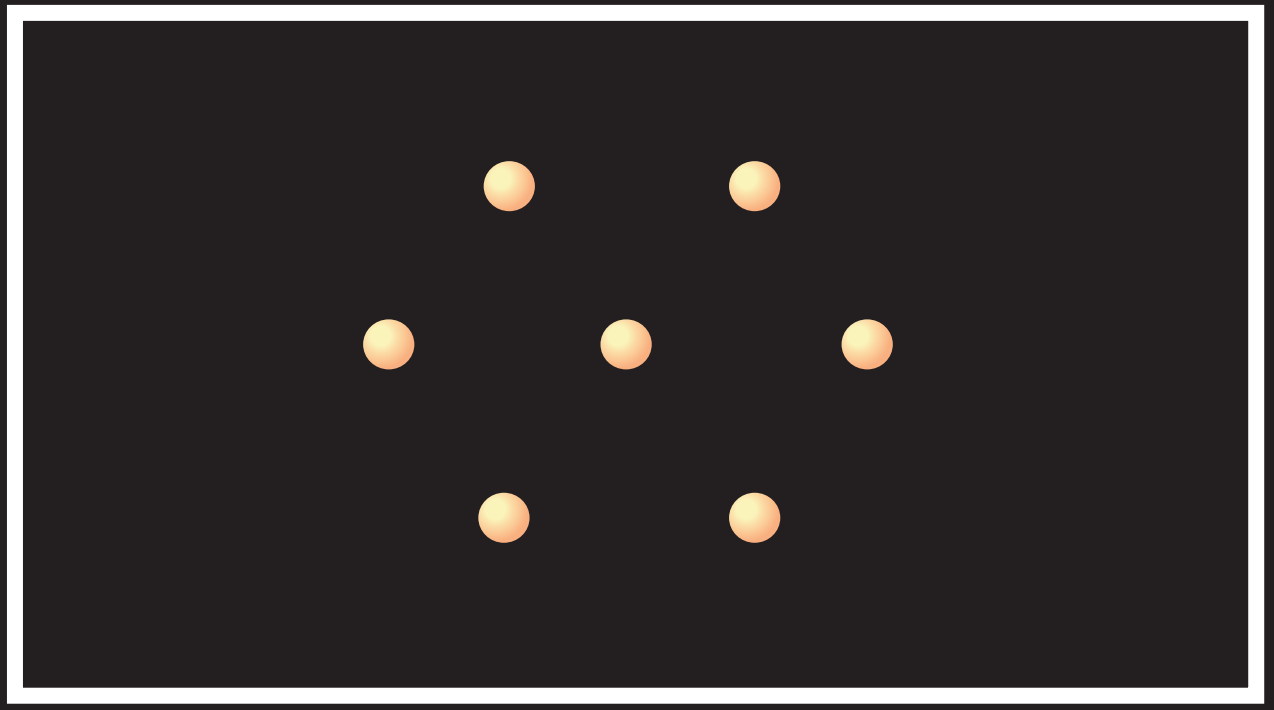




Cross-Sectional View

Menu

bcc(111)

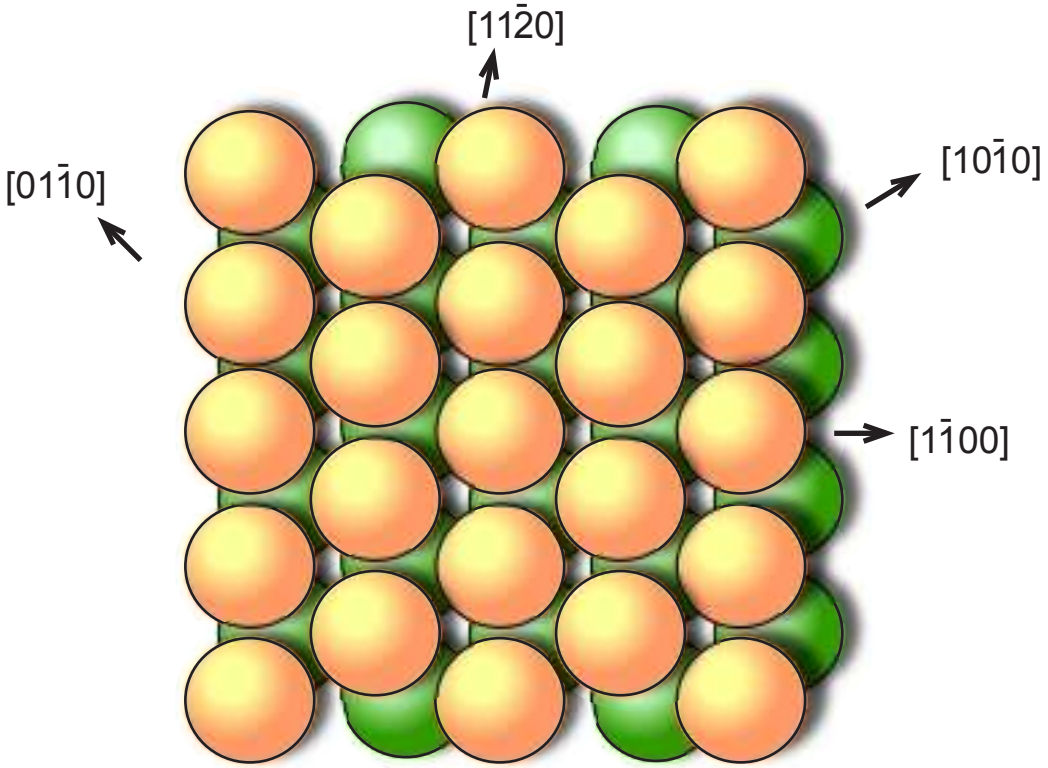


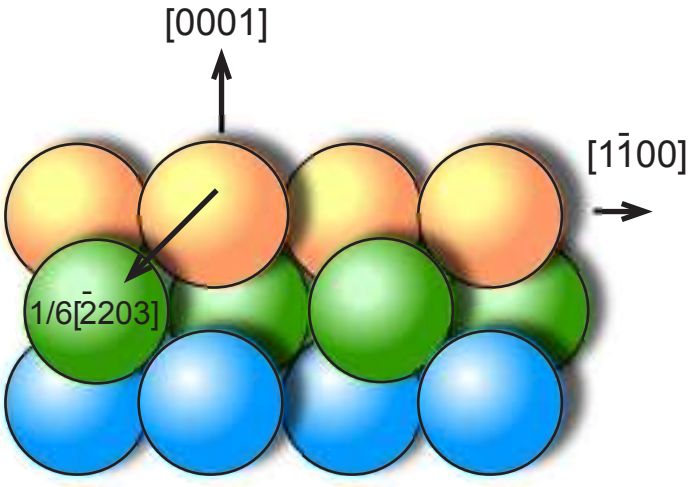
Diffraction Pattern

hcp(0001) - Surface view

Diffraction Pattern

a = unit cell length

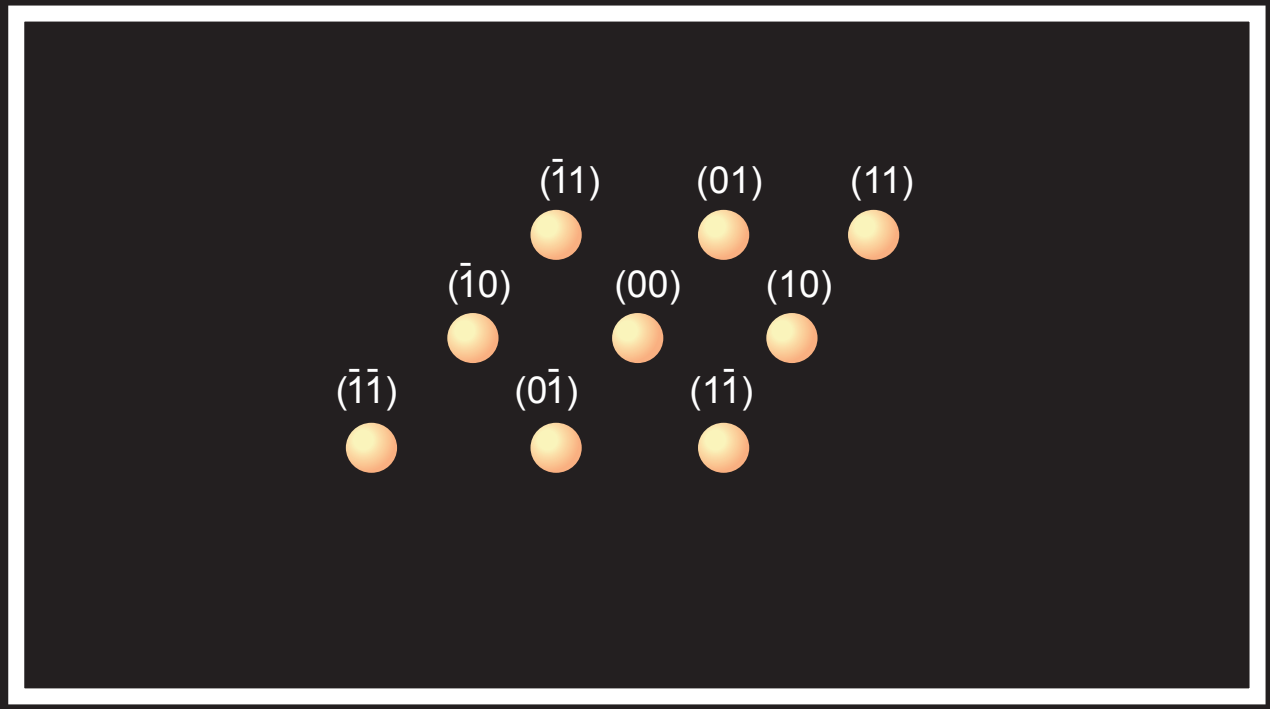




Cross-Sectional View

Menu

hcp(0001)

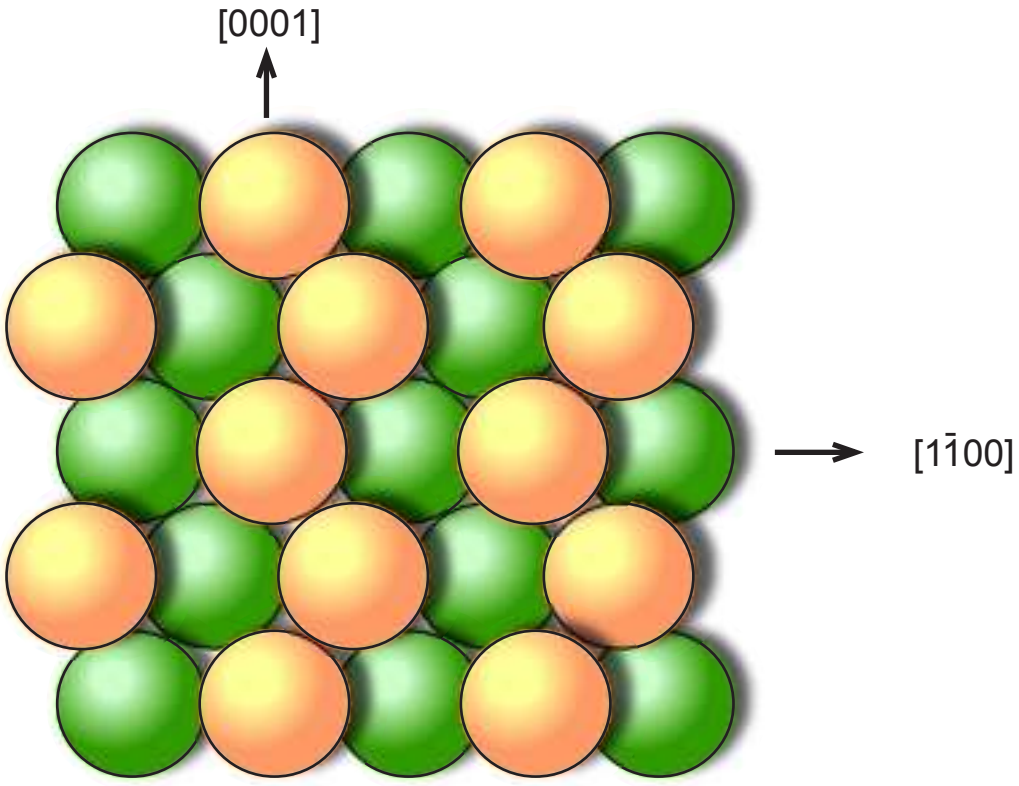


Diffraction Pattern

hcp(1$\bar{1}$20)

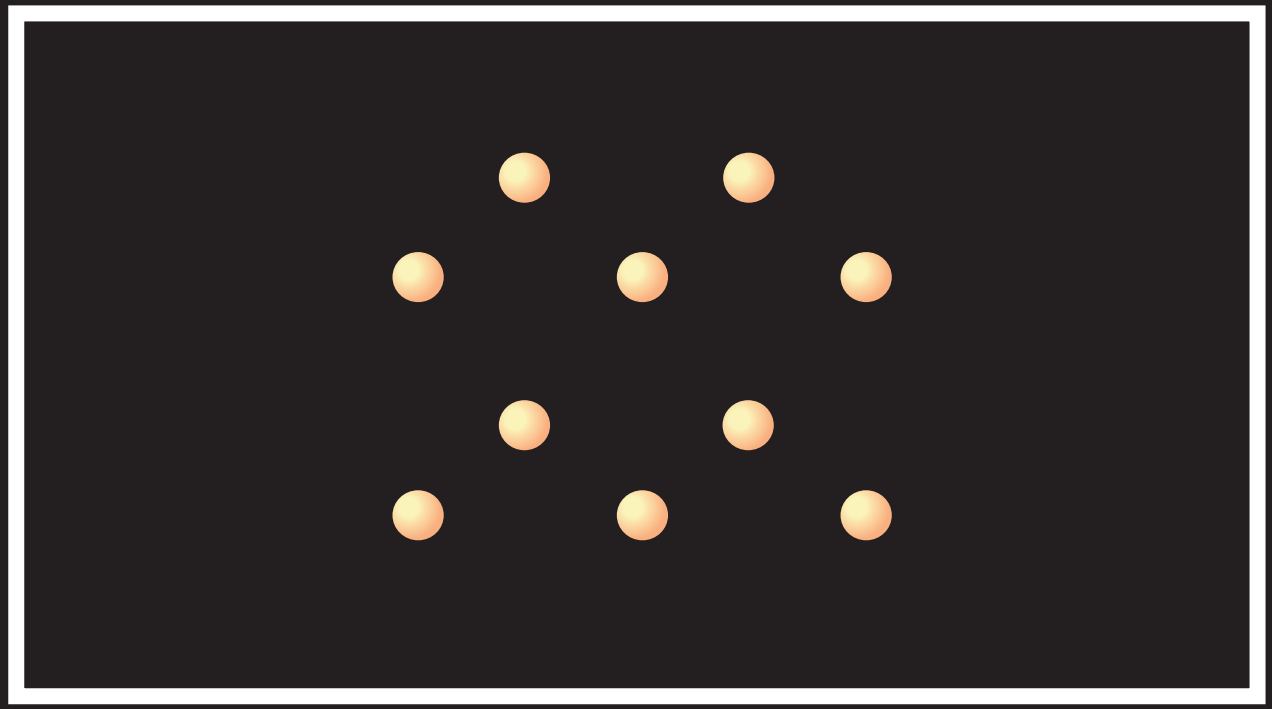
Diffraction Pattern

a = unit cell length



Menu

hcp(11$\bar{2}$0)

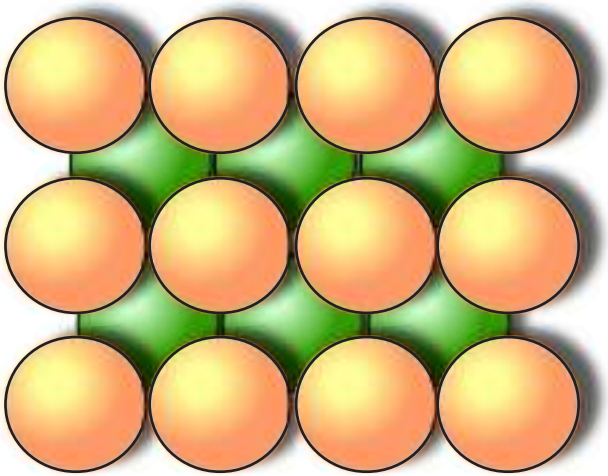


Diffraction Pattern

hcp(10$\bar{1}$0) - Surface view

Diffraction Pattern

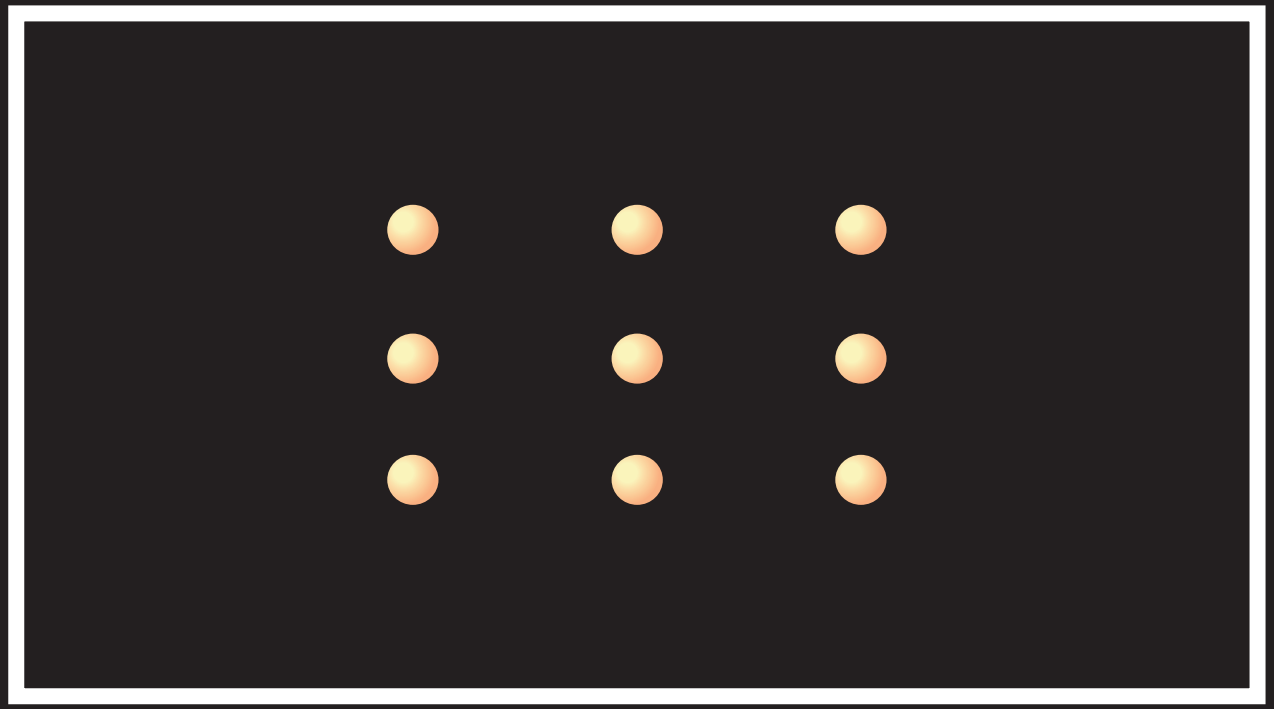
a = unit cell length



Cross-sectional view-

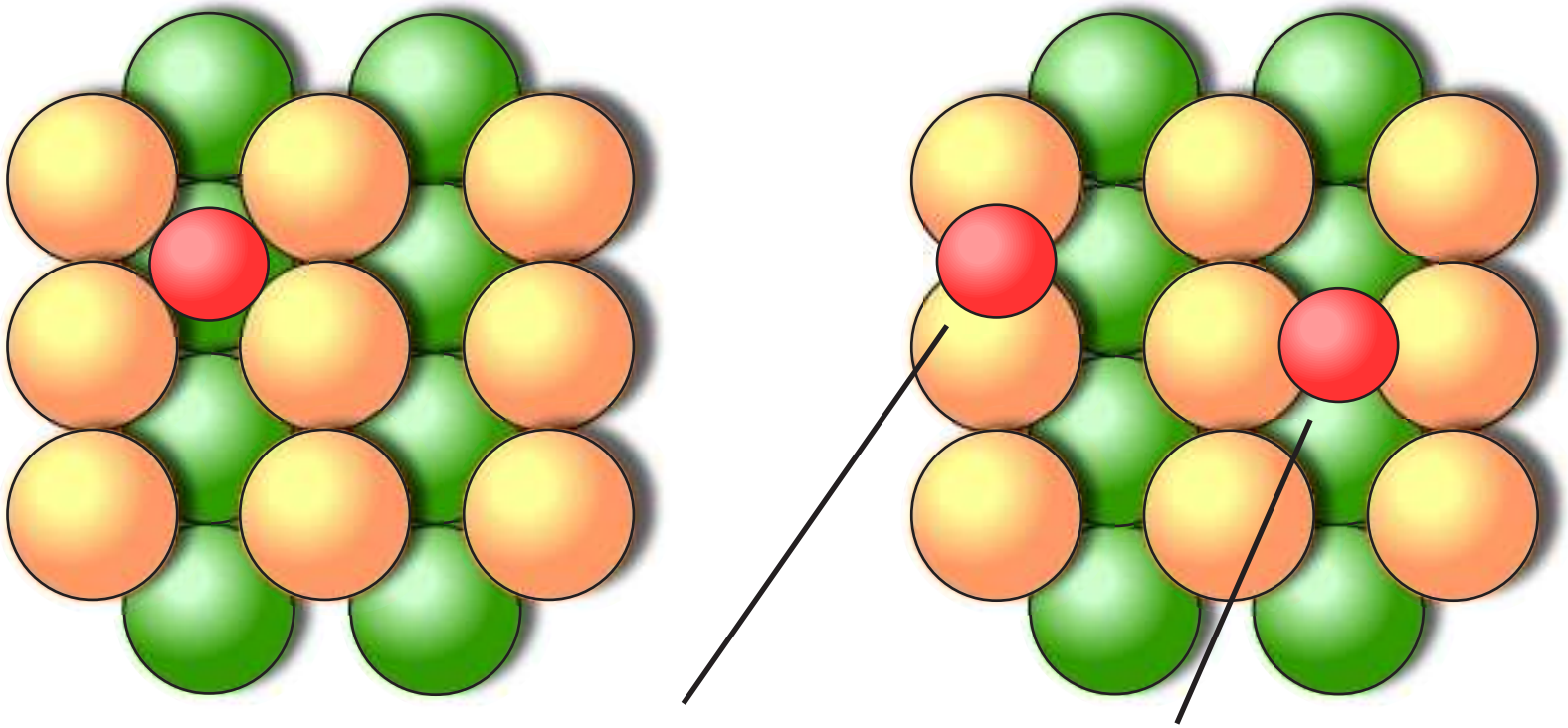
Menu

hcp(10$\bar{1}$0)



Diffraction Pattern

fcc(110) - Overlayer Structures



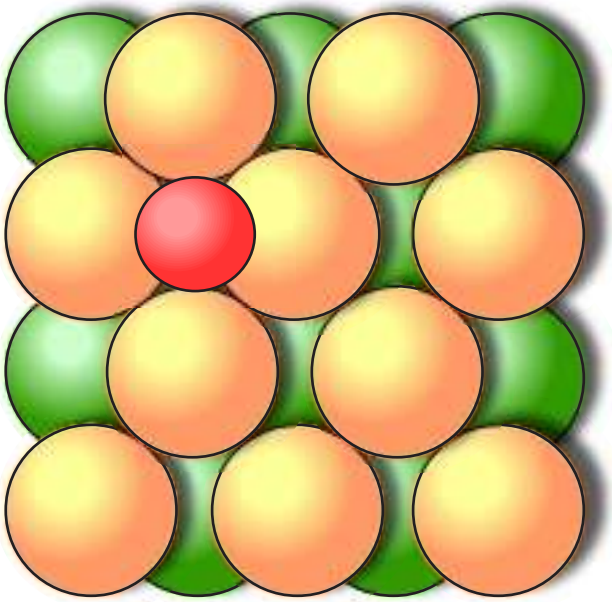
fcc(110) + hollow adatom

fcc(110) +
short-bridge adatom

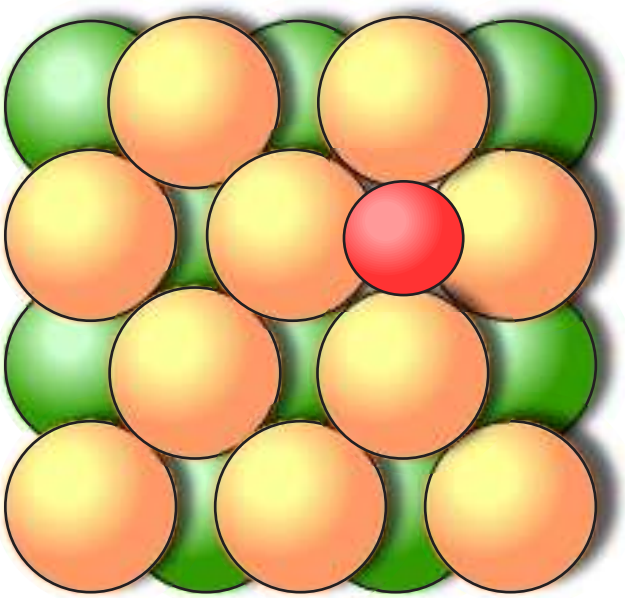
fcc(110) +
long-bridge adatom

crystal face

bcc(110) - Overlayer Structures



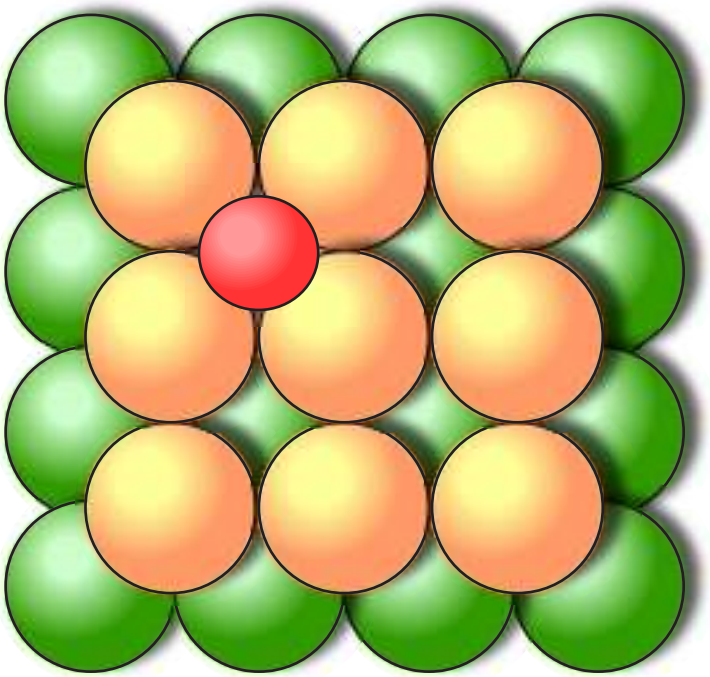
bcc(110) + 3-fold adatom



bcc(110) + centre adatom

crystal face

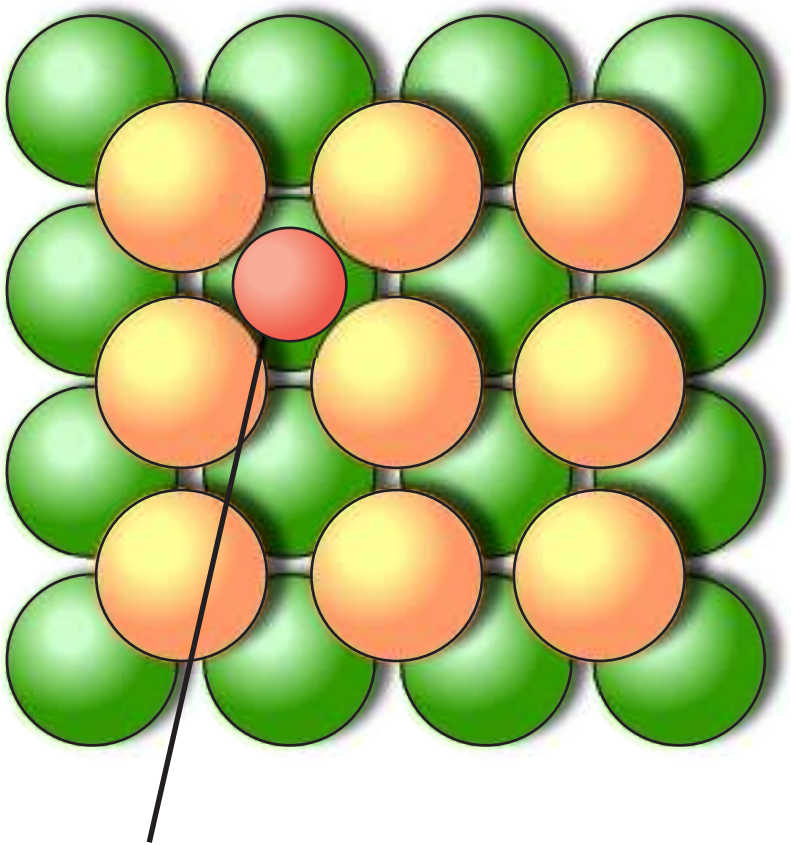
fcc(100) - Overlayer Structures



fcc(100) + hollow adatom

crystal face

bcc(100) - Overlayer Structures



bcc(100) + hollow adatom

crystal face