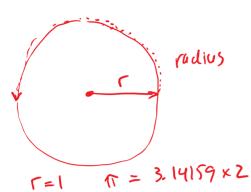
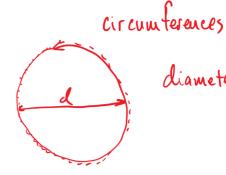
## Atomic Packing Factor (APF)

r=1



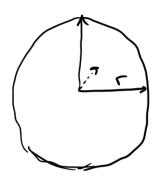
20



diameter

$$d=1$$
  $\Omega = 3.1415926535$   $= 3.14159$ 

volume = \frac{4}{3} \tau R^3 ot an atom / 1 atom.



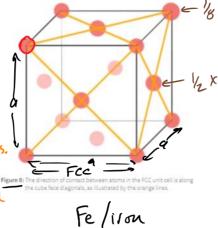
$$|pm = |e^{-10} cm$$

$$|cm = |e^{10} pm$$

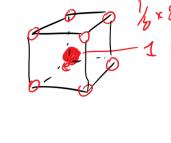
APF - atomic packing factor

$$APF = \frac{n \frac{4}{3} \Omega R^3}{q^3}$$

$$= \frac{\sqrt{\frac{4}{3}} \cdot \sqrt{2^3}}{\times \cdot y \cdot z}$$



La 194 pour



FCC - face centred cubic

$$APF = \frac{n \frac{4}{3} \pi R^3}{FCC^3} = \frac{n \frac{4}{3} \pi R^3}{(2\sqrt{2}R)^3}$$

$$APF = \frac{4 \cdot \frac{4}{3} \cdot 3.14159 \cdot (194 \text{ pm})^3}{(548.7096 \text{ pm})^3} = 668851,0380$$

## PERIODIC TABLE OF ELEMENTS

