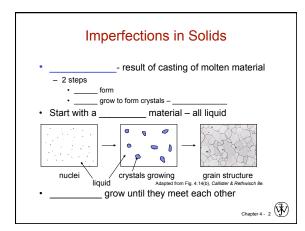
## Chapter 4:

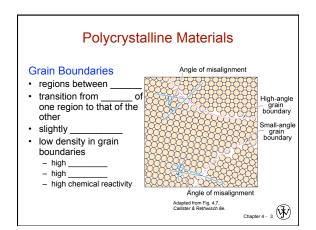
## Imperfections in Solids ISSUES TO ADDRESS...

- What are the solidification mechanisms?
- · What types of defects arise in solids?
- Can the number and type of defects be varied and controlled?
- · How do defects affect material properties?
- Are defects undesirable?

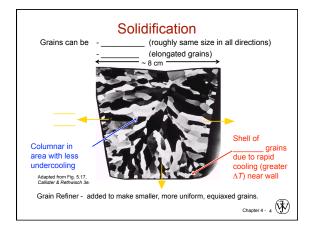
## Chapter 4 - 1







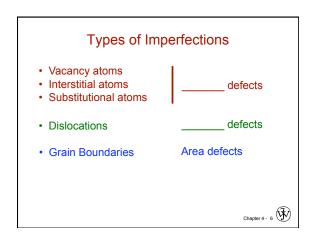


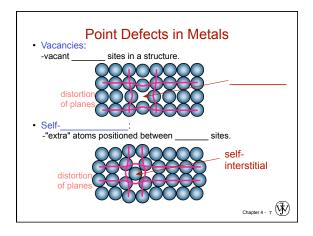




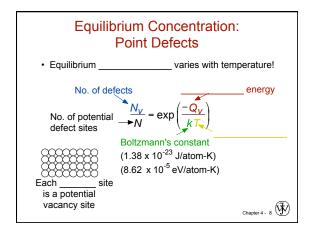
## Imperfections in Solids There is no such thing as a perfect crystal. • What are these imperfections? • Why are they important? Many of the important properties of materials are due to the presence of imperfections.

Chapter 4 - 5

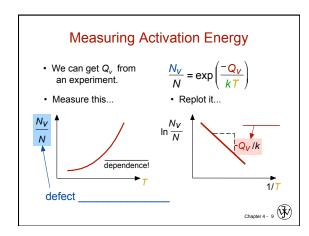




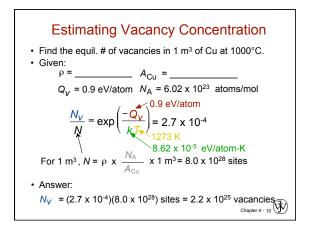




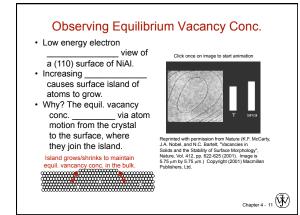


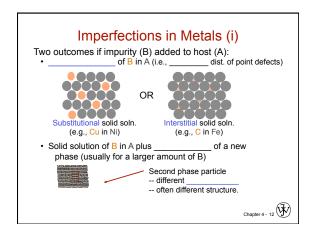




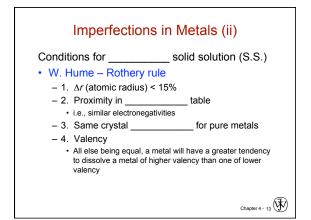


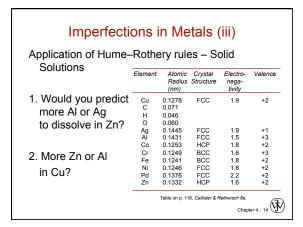




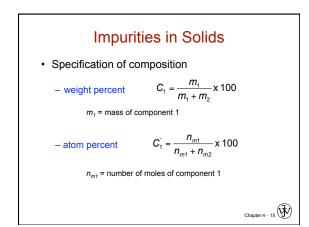


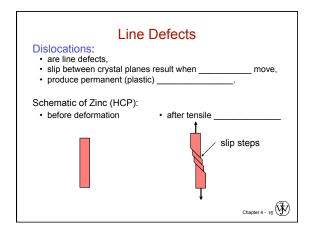




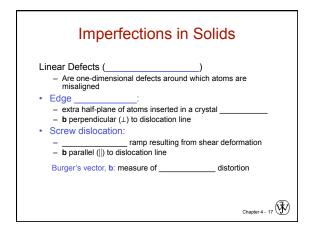


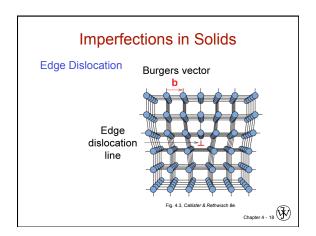




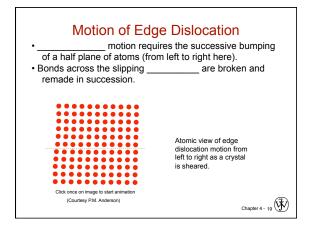




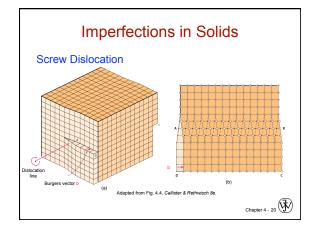




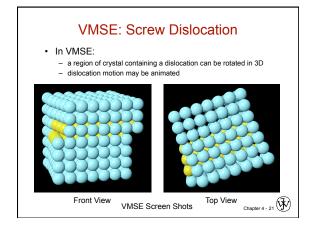












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