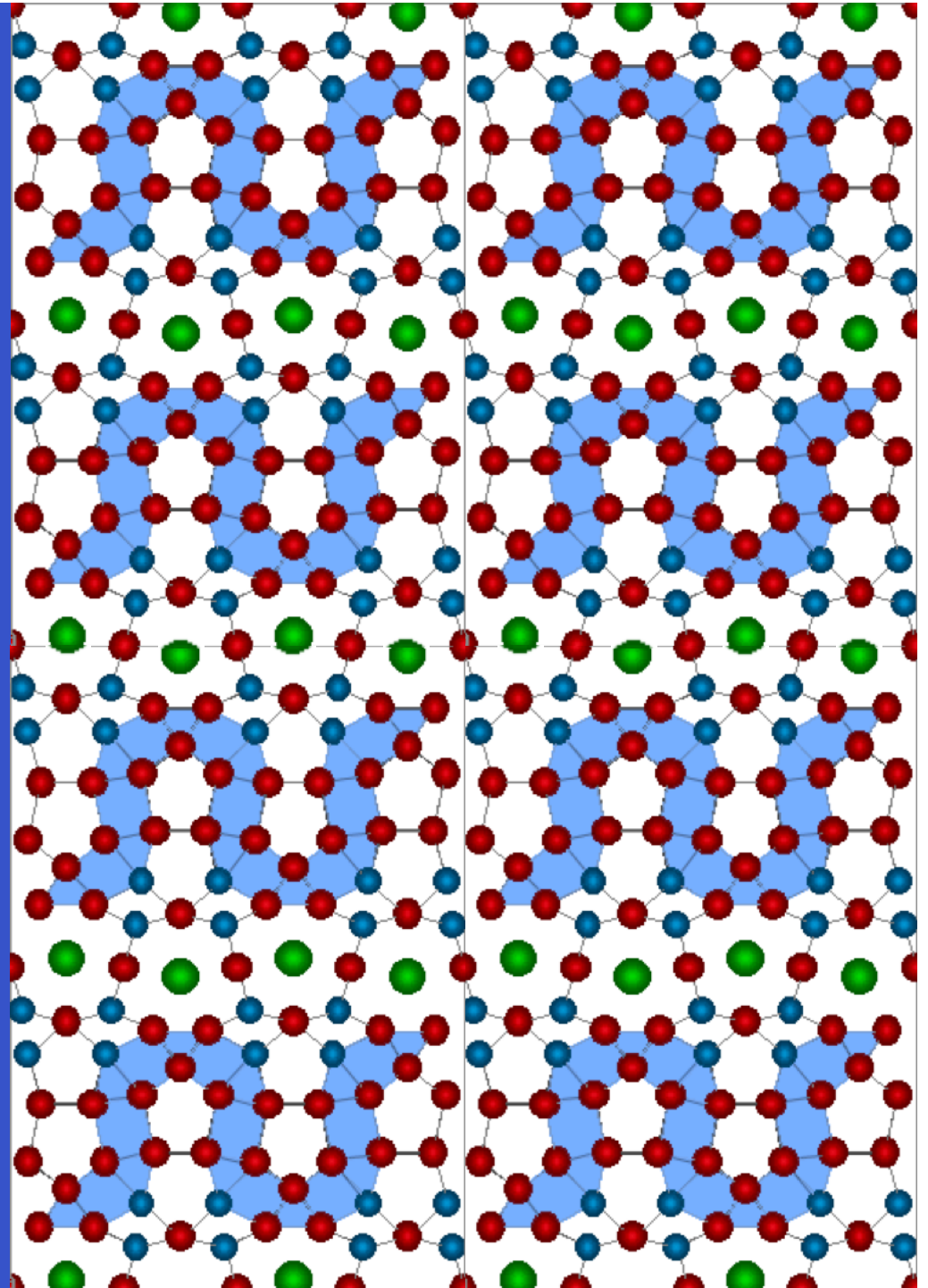
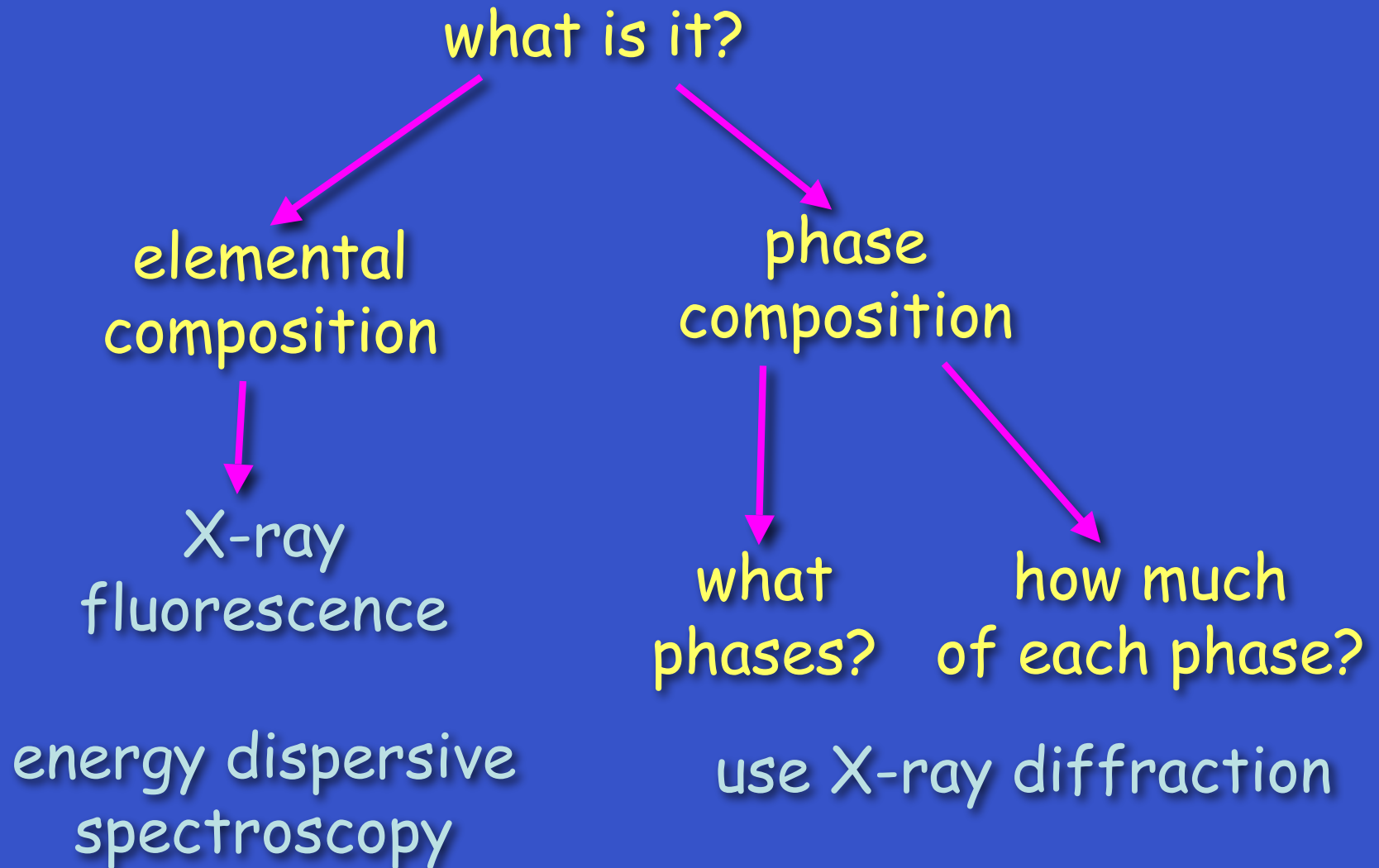


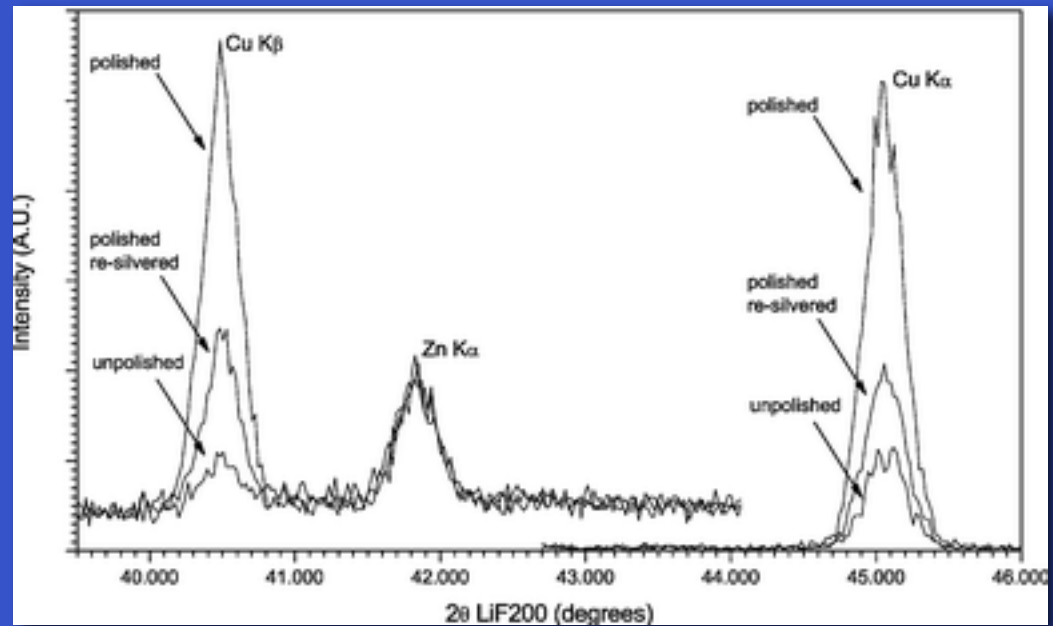
introduction
–
**characterization
of materials**



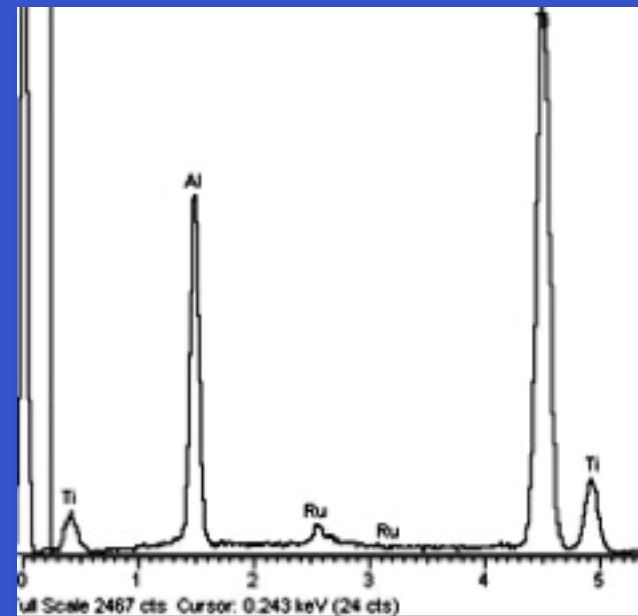
Characterization of a material means -



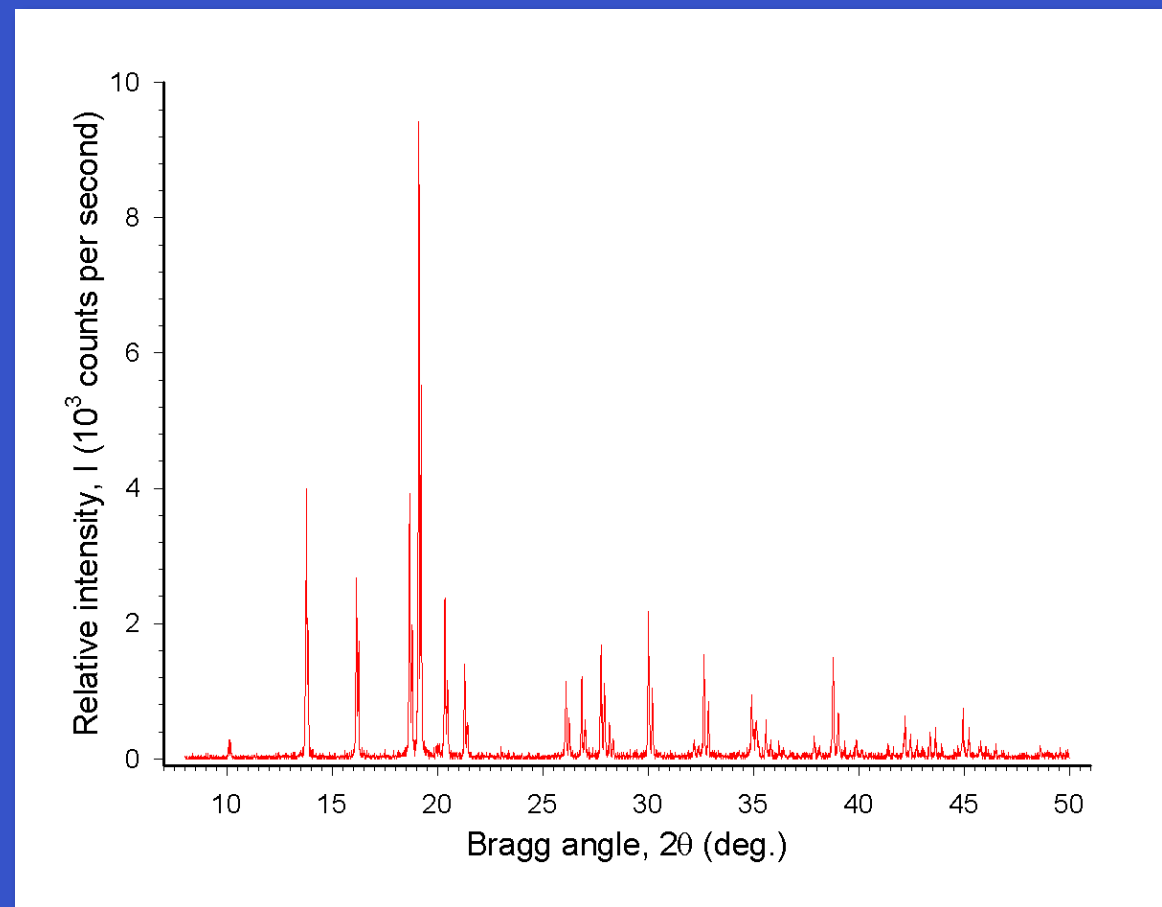
X-ray fluorescence



energy dispersive spectroscopy



X-ray diffraction



Characterization of a material means -

what does it look like?

macroscale

microscale

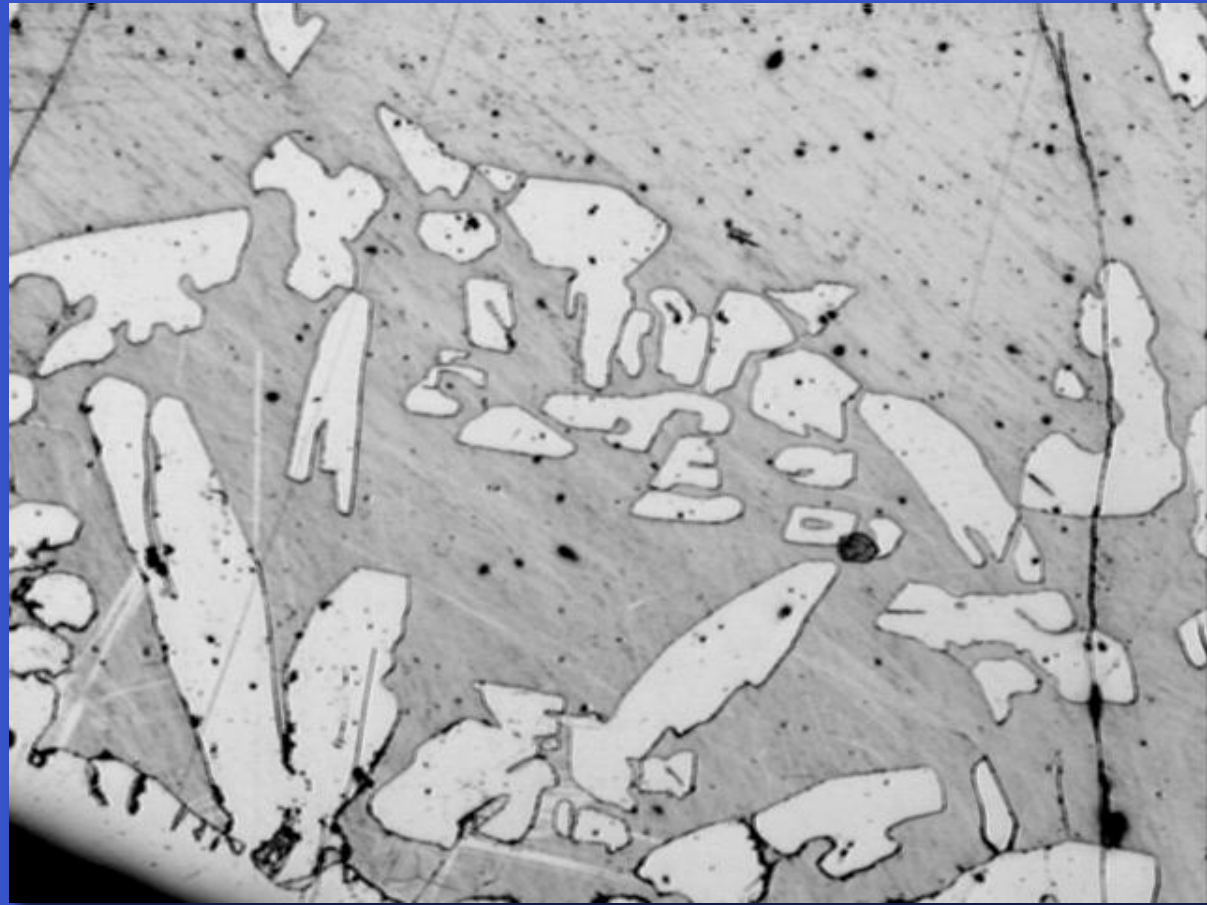
optical microscopy

scanning electron
microscopy

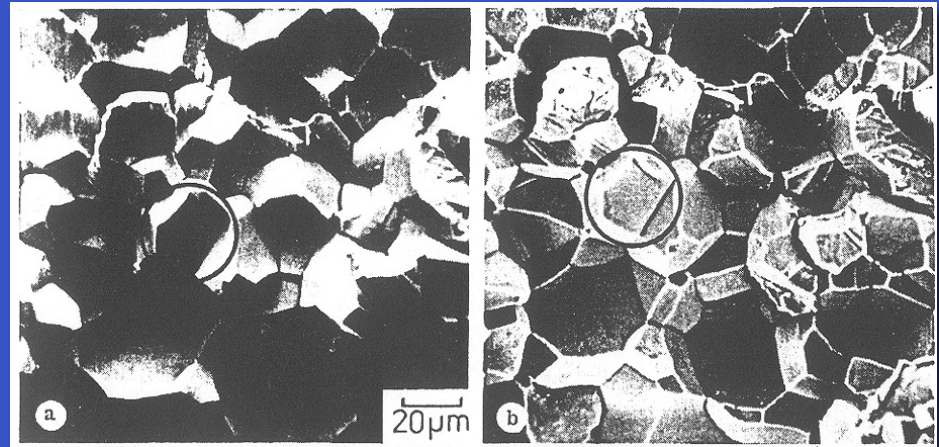
scanning electron
microscopy

transmission electron
microscopy

optical microscopy



scanning electron
microscopy



transmission electron
microscopy

