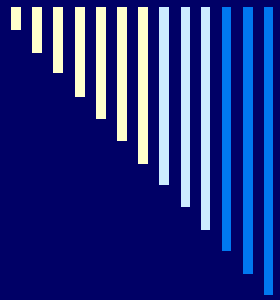


# Uses of XRD Techniques

- ❑ Used for mineral and soil analyses
- ❑ Metals and alloys
- ❑ Identify post blast residues
- ❑ Pigments and paint analyses
- ❑ Plastics and polymers
- ❑ Drugs
- ❑ Degraded bones

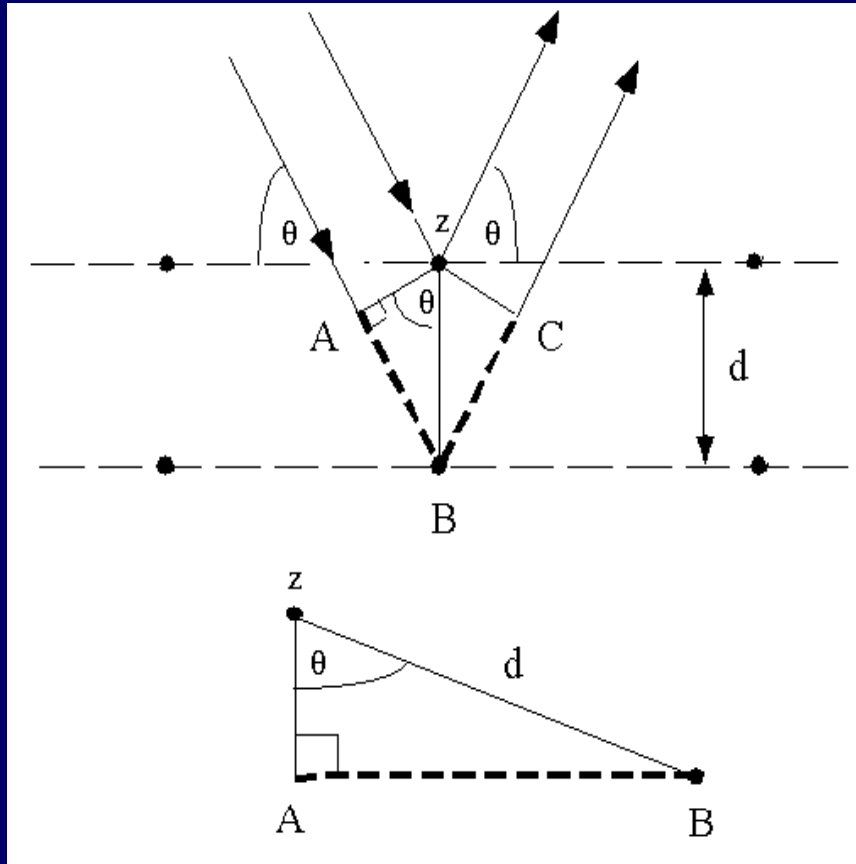


# X-ray Diffraction Analyses

- Work with small samples down to even a few grains of sample
- Powder diffraction method
- Uses film (old) or Strip Chart method (old)
- Computerized printout and automation

# Bragg's Law

$$N \lambda = 2d \sin \theta$$



$$N \lambda = 2d \sin \theta$$

