

Particle Characterization: Module 11, Lecture 32

1. Identify some unique properties of nano-particles.
2. List appropriate uses of OM, SEM, TEM, AFM, XRD for nano-particle characterization.
3. Why is a Differential Mobility Analyzer especially well-suited to nano-particles?
4. Differentiate FBM and PCS.
5. Name some techniques for shape analysis of nano-particles.
6. Describe three density values relevant to nano-particles.
7. How do melting point, surface tension and specific surface area vary as size shrinks?
8. Classify the composite structure of nano-particles.
9. For nano-particles, what does crystal structure depend on?
10. How do mechanical, optical and electrical properties evolve in the nano-range?