

Module 5: Interfacial Characterization

- Derive the Langmuir relationship for particle surface coverage by a monolayer of adsorbents, and state the assumptions involved.
- Provide three definitions of particle concentrations, and identify applications where each definition is relevant.
- Derive a relationship linking gas adsorption on a particle to the prevailing gas pressure.
- State the Beer-Lambert law for light transmission through a homogeneous dispersion of particles. Name an instrument that uses this phenomenon to measure particle concentration. Name one positive and one negative consequence of light attenuation by suspended particles.