Particle Characterization: Module 9, Lecture 22

1. Identify dominant transport modes by particle size.
2. How does random walk distance depend on particle size, time?
3. How does particle deposition rate depend on particle size, time?
4. How does particle diffusivity depend on particle size, temperature & viscosity?
5. How does Cc depend on particle size?
6. Write an expression for steady-state particle mass flux.
7. Write an expression for transient particle mass flux.
8. How does a particle concentration gradient develop in a fluid?
9. How can particle deposition on surfaces be minimized?
10. Sketch theoretical & experimental dependence of coulombic force on particle size.