Tangent to sphere surface

$\rho_1 \ \eta_1$

$\rho_2 \ \eta_2$

ρ_s

a

σ

Tangent to fluid interface

χ

$\rho_{1(2)} =$ Density of fluid 1(2)

$\eta_{1(2)} =$ Dynamic viscosity of fluid 1(2)

$\sigma =$ Interfacial tension

$\rho_\mathrm{S} =$ Density of sphere

$a =$ Sphere radius

$\chi =$ Contact Angle