

**mechanical techniques: particle size separation** - total volume can be expressed as:  $v_p = \frac{1}{6} \pi d^3$  [2] where  $v$  is defined as the volume shape factor. the surface and volume shape factors may be related to a combined shape factor  $k_p$  as:  $k_p = \frac{v_p}{s_p}$  [3] in the case of spherical or cubical particles it can be shown that the shape factor is 6. for irregular particles, values vary from 6 to 10 ... **aggregation and separation in ternary particle/oil/water ...** - particles are fully or almost fully wetted by one  $\gamma_{p-o}$ , and (2) if the wetting  $\gamma_{p-o}$  volume fraction is comparable to the particle volume fraction. aggregation and separation do not happen if the particles are partially wetted by both  $\gamma_{p-o}$ , in which case pickering emulsions appear at all compositions. rheological and geometric **interfacial tension and nucleation in mixtures of colloids ...** - interfacial tension and nucleation in mixtures of colloids and long ideal polymer coils richard p. sear\* department of physics, university of surrey, guildford, surrey gu2 7xh, united kingdom ~received 1 february 2002; published 20 june 2002! mixtures of ideal polymers with hard spheres whose diameters are smaller than the radius of gyration of the **a disposable microfluidic virus concentration device based ...** - a disposable microfluidic virus concentration device based on evaporation and interfacial tension ... from a relatively large volume of fluid into a desired location and small volume. the interfacial tension acting on the solid particles by the fluid is estimated to be ... rapidly when the separation between particles and the device wall ... **on small deformation interfacial the author(s) 2015 ...** - the interfacial debonding is characterized by the nonlinear  $\gamma_{p-o} \propto \phi^2$  "paulino  $\gamma_{p-o} \propto \phi^2$  roesler potential-based ... enables micromechanical formulations for composite materials with high particle volume fractions. the computational ... multi-phase particles, nonlinear separation,  $\gamma_{p-o} \propto \phi^2$  "paulino  $\gamma_{p-o} \propto \phi^2$  roesler cohesive zone model, homogeneous coating, hollow **bicontinuous emulsions stabilized solely by colloidal ...** -  $\gamma_{p-o} \propto \phi^2$  lumpy  $\gamma_{p-o} \propto \phi^2$ ™ interfacial layers and therefore ir-reproducible material properties. here we report a reproducible protocol for creating three-dimensional samples of bijel in which the interfaces are stabilized by essentially a single layer of particles. we demonstrate how to tune the mean interfacial separation in these bijels, and show that ... **interfacial particles in emulsions - sci - home** - interfacial particles in emulsions eric dickinson school of food science and nutrition university of leeds ... w. ramsden,  $\gamma_{p-o} \propto \phi^2$  separation of solids in the surface-layers of solutions and suspensions  $\gamma_{p-o} \propto \phi^2$ , ... volume distribution droplet size ... **ionic liquids as the mofs/polymer interfacial binder for e ...** - ionic liquids as the mofs/polymer interfacial binder for efficient membrane separation rijia lin,  $\gamma_{p-o} \propto \phi^2$  lei ge,\*,  $\gamma_{p-o} \propto \phi^2$  hui diao,  $\gamma_{p-o} \propto \phi^2$ ; victor rudolph,  $\gamma_{p-o} \propto \phi^2$  and zhonghua zhu\*,  $\gamma_{p-o} \propto \phi^2$   $\gamma_{p-o} \propto \phi^2$  school of chemical .. **interfacial phenomina in dispersed systems** - fiber separation processes that involve several interfacial phenomena such as detergency, dispersing action, and controlled wettability. most paints and inks are very complex systems that contains score of different products, among them oil droplets (resins) and solid particles (pigments, opacifiers), which make them both emulsions and suspensions. **on small deformation interfacial the author(s) 2015 ...** - on small deformation interfacial debonding in composite materials containing multi-coated particles roohollah hashemi1, daniel w spring1 and glaucio h paulino1,2 abstract this paper presents an integrated theoretical and computational investigation into the macroscopic behavior of com-

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