

Drag law for bidisperse gas-solid suspensions containing equally sized spheres

We numerically investigate hyperuniformity in two-dimensional frictionless jammed packings of bidisperse systems. Hyperuniformity is characterized by the suppression of density fluctuations ...

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Given a string S , the task is to find the lexicographically largest subsequence that can be formed using all distinct characters only once from the given string. Examples: Input: S ...

A worker performs a soldering job at a factory in Qinhuangdao, Hebei province, which makes equipment for the HTGR reactor plant at Shidaowan in Shandong province. [Photo/Xinhua] The No 1 reactor of ...

This study investigates the rectilinear oscillations of two coaxially aligned spherical particles in an unbounded couple stress fluid at low Reynolds numbers, addressing a fundamental problem in ...

In this article, by using the core concept of mesoscience (the compromise in competition between dominant mechanisms), a mathematically rigorous procedure is proposed to develop a ...

The interaction of a planar shock wave with a suspension of bidisperse particles is examined using high-fidelity simulations over a range of shock Mach numbers (M s M s), particle volume ...

Drag Equation On this page: Drag Drag Coefficient Lift Coefficient Reference Area Density Download as a Slide Drag Drag depends on the density of the air, the square of the velocity, the air's viscosity and compressibility, the ...

Based on the advances in the literature concerning the Kaskas equation for drag coefficient in spheres, the present study proposes the inclusion of a natural logarithm function, allied with ...

An overview is presented of camera-based techniques used in "dilute" (optically transparent) particle-laden flows for the quantitative visualization of both flow field and dispersed particles. ...

Figure 7.6.4 7.6. 4: Electric potential map of two opposite charges of equal magnitude on conducting spheres. The potential is negative near the negative charge and positive near the positive charge. This dynamic image is ...

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Bragg's Law is a law that helps in understanding coherent and incoherent scattering from a crystal lattice. In this article, we will see Bragg's Law, its equation, derivation, application, etc. In this article, we will learn about how ...

Where D is equal to the drag, ρ is the air density, V is the velocity, A is a reference area, and C_d is the drag coefficient. The drag coefficient is a dimensionless number that characterizes all of the complex factors that affect ...

Novelty arises from extending prior work on viscous fluids to couple stress fluids, uncovering how microstructural effects amplify drag and alter oscillation dynamics. For instance, at $(\alpha \dots)$

Suspensions containing *Aspergillus niger*, a microscopic fungus that produces metabolites with high commercial value, were exposed to single-pulse and tandem shock waves. Morphological changes were analyzed by ...

By virtue of this, two dominant mechanisms are identified and quantitatively characterised: a positive, particle-induced extra transport that decreases monotonically with increasing $St + S t \dots$

Using Gauss's law According to Gauss's law, the flux must equal the amount of charge within the volume enclosed by this surface, divided by the permittivity of free space. When you do the calculation for a cylinder of length ...



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