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Low Reynolds number hydrodynamics - with special ...
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Low Reynolds number hydrodynamics, with special applications to particulate media. Responsibility [by] John Happel [and] Howard Brenner. Imprint Englewood Cliffs, N.J., Prentice-Hall [1965] Physical description xiii, 553 p. illus. 24 cm. Series

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Low Reynolds number hydrodynamics with special applications to particulate media John Happel Columbia University Department of Chemical Engineering and Applied Chemistry New York, New York USA Howard Brenner Department of Chemical Engineering Cambridge, Massachusetts USA 1983 MARTINUS NIJHOFF PUBLISHERS k4

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Low Reynolds number hydrodynamics: with special ...
Low Reynolds Number Hydrodynamics by Happel and Brenner is one of the most useful texts ever written (in the field of the same name), and is essential reading for everyone working in this area. This includes researchers studying motion of colloidal particles say during sedimentation or through NEMS devices, cell motility and motion of bacteria, microfluidics, microrheology of complex fluids, etc.

Low Reynolds number hydrodynamics: with special ...
ming at low Reynolds number, a regime relevant to the motion of bacteria and small algae [16, 17,18]. Specifically, generalizing recent work [12,11,14], we derive time-averaged equations of motion that govern the effective, three-dimensional hydrodynamic interaction between actively oscillating, asymmetric dumbbell1 pairs.

Low Reynolds number hydrodynamics of asymmetric ...
Low–Reynolds number hydrodynamics is at the heart of the ability of flagella to generate propulsion at the micrometer scale. In fact, fluid dynamic forces impact many aspects of bacteriology, ranging from the ability of cells to reorient and search their surroundings to their interactions within mechanically and chemically complex environments.

Bacterial Hydrodynamics | Annual Review of Fluid Mechanics
Hydrodynamic synchronization at low Reynolds number† Ramin Golestanian,*a Julia M. Yeomans*a and Nariya Uchida*b Received 7th October 2010, Accepted 6th December 2010 DOI: 10.1039/c0sm01121e After a long gap following the classic work of Taylor, there have recently been several studies dealing with hydrodynamic synchronization.

Hydrodynamic synchronization at low Reynolds number
Classical hydrodynamics is largely concerned with perfect fluids which unfortunately exert no forces on the particles past which they move. Practical approaches to subjects like fluidization, sedimentation, and flow through porous media abound in much useful but uncorrelated empirical information.

Low Reynolds number hydrodynamics | SpringerLink
HYDRODYNAMIC INTERACTIONS BETWEEN PARTICLES IN LOW-REYNOLDS-NUMBER FLOW: A MODULAR APPROACH Sangtae Kim Technical Summary Report #2643 February 1984 ABSTRACT °A modular method for calculating hydrodynamic interactions between particles in low-Reynolds-number flow has been constructed by using multipole expansion solutions for the reflection field.

HYDRODYNAMIC INTERACTIONS BETWEEN PARTICLES INI/ LOW ...
Although well-known in meteorological optics, the hydrodynamics of the orientation is not quantitatively understood. I review the theory of torques on objects at low Reynolds numbers, define coefficients Co, Cp, and Cψ which describe the orienting torques on discs, rods, and hexagonal prisms, and report here the results of experiments to measure Co and Cp. 1 I.

Low Reynolds Number Hydrodynamics (Prentice-Hall, (1965)
Stokes flow (named after George Gabriel Stokes), also named creeping flow or creeping motion, is a type of fluid flow where advective inertial forces are small compared with viscous forces. The Reynolds number is low, i.e. ≪.This is a typical situation in flows where the fluid velocities are very slow, the viscosities are very large, or the length-scales of the flow are very small.

Stokes flow - Wikipedia
flexible filament modeled hydrodynamics through an aniso-tropic friction coefficient.21,22 Our first aim in this paper is to explore new ways in which simulation methods can be applied to the motion of swimmers in a low Reynolds number solvent. We model the hydrodynamic interactions by using the Oseen tensor

Modeling microscopic swimmers at low Reynolds number
Hydrodynamic interactions in complex fluids are investigated by the multi-particle-collision-dynamics algorithm, a mesoscopic simulation technique. The diffusive dynamics of simple fluids is studied, and the diffusion coefficient is calculated as a function of the mean free path of a particle. For small mean free paths, we observe strong effects due to hydrodynamic interactions among the fluid ...

Low-Reynolds-number hydrodynamics of complex fluids by ...
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