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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

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ABSTRACT: The quasi-steady electromagnetophoretic motion of a spherical colloidal particle positioned at the center of a spherical cavity filled with a conducting fluid is analyzed at low Reynolds number. Under uniformly applied electric and magnetic fields, the electric current and magnetic flux ...

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Low Reynolds Number Hydrodynamics. By J. HAPPEL & HOWARD BRENNER. Prentice-Hall, 1965. 553 pp. £6. - Volume 28 Issue 4 - P. G. Saffman

~~Low Reynolds number hydrodynamics: with special ...~~
Poiseuille flow is pressure-induced flow (Channel Flow) in a long duct, usually a pipe.It is distinguished from drag-induced flow such as Couette Flow.Specifically, it is assumed that there is Laminar Flow of an incompressible Newtonian Fluid of viscosity η) induced by a constant positive pressure difference or pressure drop Δp in a pipe of length L and radius R << L.

~~Low Reynolds number hydrodynamics - GBV~~
LOW Re HYDRODYNAMICS OF A DROPLET 501 HAPPEL, J. & BRENNER, H. 1973 Low Reynolds Number Hydrodynamics. Noordhoff, Gronigen. HETSRONI, G. & HABER, S. 1970 The flow in and around a droplet or bubble submerged in an unbounded arbitrary velocity field.

~~Drag Force on a Sphere Moving in Low-Reynolds-Number Pipe ...~~
Stokes's law of sound attenuation is a formula for the attenuation of sound in a Newtonian fluid, such as water or air, due to the fluid's viscosity.It states that the amplitude of a plane wave decreases exponentially with distance traveled, at a rate given by = where is the dynamic viscosity coefficient of the fluid, is the sound's angular frequency, is the fluid density, and is the speed of ...

~~Low Reynolds Number Hydrodynamics: with special ...~~
Low Reynolds number hydrodynamics with special applications to particulate media. Authors (view affiliations) John Happel; Howard Brenner; Book. 341 Citations; 1 Mentions; ... John Happel, Howard Brenner. Pages 23-57. Some General Solutions and Theorems Pertaining to the Creeping Motion Equations. John Happel, Howard Brenner. Pages 58-95.

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~~Low reynolds number motion of a droplet between two ...~~
In this paper, the drag force on a sphere moving constantly along the centerline of a circular pipe filled with viscous fluid (the falling-sphere problem) under low Reynolds number condition is investigated via numerical calculation. The incompressible Navier-Stokes equations are formulated in a pseudocompressibility form.

~~Low Reynolds number hydrodynamics. - Springer~~
Low Reynolds number hydrodynamics: with special ... J. Happel, H. Brenner Limited preview - 2012. ... plane wall Poiseuille flow porous pressure drop problem radius ratio relation relationship relative relative viscosity resistance Reynolds numbers rotation satisfied scalar Section sedimentation settling velocity shear solid solution spherical ...

~~Low Reynolds number hydrodynamics - with special ...~~
Low Reynolds Number Hydrodynamics: with special applications to particulate media (Mechanics of Fluids and Transport Processes) [John Happel, Howard Brenner] on Amazon.com. *FREE* shipping on qualifying offers. One studying the motion of fluids relative to particulate systems is soon impressed by the dichotomy which exists between books covering theoretical and practical aspects.

~~Poiseuille Flow - Thermopedia~~
Swimming with a Flagellum at Low Reynolds Number. At low Reynolds number a rotating flagellum exerts an axial thrust and torque related to the flagellum's axial velocity and rotation rate by (Happel and Brenner (1965), Kim and Karilla (1991)): The symmetric 2 X 2 in the above matrix depends only on the geometry of the flagellum.

~~Hydrodynamic stability - Wikipedia~~
Low Reynolds number hydrodynamics: with special applications to particulate media J. Happel , H. Brenner Springer Science & Business Media , Dec 6, 2012 - Science - 553 pages

~~Howard Brenner - Wikipedia~~
Hydromechanics of low-Reynolds-number flow. Part 1. Rotation of axisymmetric prolate bodies By ALLEN T. CHWANG AND T. YAO-TSU WU Engineering Science Department, California Institute of Technology, Pasadena (Received 1 May 1973) ... Happel & Brenner 1965; Batchelor 1967, $4.9).

~~Hydromechanics of low-Reynolds-number flow. Part Rotation ...~~
The foundations of hydrodynamic stability, both theoretical and experimental, were laid most notably by Helmholtz, Kelvin, Rayleigh and Reynolds during the nineteenth century. These foundations have given many useful tools to study hydrodynamic stability. These include Reynolds number, the Euler equations, and the Navier–Stokes equations.

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~~Swimming with a Flagellum at Low Reynolds Number~~
Abstract. Readers interested in the derivation of the key expression, [2.7], are directed to appendix A. 3. FAXEN LAWS FOR ELLIPSOIDAL PARTICLES A correspondence between singularity solutions and Faxen laws follows as a corollary of the Lorentz (1907) reciprocal theorem (Brenner 1964; Kim 1985b).

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~~Stokes's law of sound attenuation - Wikipedia~~
His first textbook, Low Reynolds Number Hydrodynamics (with Happel; Prentice-Hall, 1965), earned him a reputation lasting several decades. His profession though fundamental research is on microfluidics, complex liquids, interfacial transport process, emulsion rheology, and multiphase flows.