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7 Low Reynolds Number Flows*Reynolds Number - Laminar and Turbulent Flow* **Flow reversibility at low Reynolds number with (dyed) glycerol** Time Reversibility In Low Reynolds Number Flows Low Reynolds Number Hydrodynamics With

Low Reynolds number hydrodynamics Book Subtitle with special applications to particulate media Authors. J. Happel; H. Brenner; Series Title Mechanics of Fluids and Transport Processes Series Volume 1 Copyright 1983 Publisher Springer Netherlands Copyright Holder Martinus Nijhoff Publishers, The Hague eBook ISBN 978-94-009-8352-6 DOI 10.1007/978-94-009-8352-6

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Low Reynolds number hydrodynamics The present book represents an attempt to bridge this gap by providing at least the beginnings of a rational approach to fluid particle dynamics, based on first principles.

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length scale l, we have Re ¼ rvl/h. In the low Re regime, which could be due to small size and/or high viscosity, hydrodynamics is governed by viscous forces. For microorganisms in water, with typical values l 110 mm and v 10 mms , Re 10 4. Therefore, microorganisms live the ‘‘life at low Reynolds number’’.1

Hydrodynamic synchronization at low Reynolds number
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
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Stokes flow, 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. $R_e \ll 1$

{\displaystyle \mathrm {Re} \ll 1}. 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. Creeping flow was first studied to understand lubrication. In nature this type of flow occurs in the ...

Stokes flow - Wikipedia

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Happel, J. & Brenner, H. 1965 Low Reynolds Number Hydrodynamics. Prentice-Hall. Jeffery , G. B. 1922 The motion of ellipsoidal particles immersed in a viscous fluid .

Hydromechanics of low-Reynolds-number flow. Part 2 ...

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