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A good working knowledge of fluid mechanics and plasma physics is essential for the modern astrophysicist. This graduate textbook provides a clear, pedagogical introduction to these core subjects. It is unique because it presents neutral fluids and plasmas in a unified scheme, encompassing both the microscopic and macroscopic theories.

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Physics of Fluids is a monthly peer-reviewed scientific journal covering fluid dynamics, established by the American Institute of Physics in 1958, and is published by AIP Publishing. The journal focus is the dynamics of gases , liquids , and complex or multiphase fluids —and the journal contains original research resulting from theoretical , computational , and experimental studies.

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~~Physics of fluids and soft matter — Department of Physics ...~~

Fluid, any liquid or gas or generally any material that cannot sustain a tangential, or shearing, force when at rest and that undergoes a continuous change in shape when subjected to such a stress. This continuous and irrecoverable change of position of one part of the material relative to another part when under shear stress constitutes flow, a characteristic property of fluids.

~~Fluid | physics | Britannica~~

Fluid mechanics is the branch of physics concerned with the mechanics of fluids and the forces on them. It has applications in a wide range of disciplines, including mechanical, civil, chemical and biomedical engineering, geophysics, oceanography, meteorology, astrophysics, and biology. It can be divided into fluid statics, the study of fluids at rest; and fluid dynamics, the study of the effect of forces on fluid motion. It is a branch of continuum mechanics, a subject which models matter with

~~Fluid mechanics — Wikipedia~~

Flow physics plays a key role in nearly every facet of the COVID-19 pandemic. This includes the generation and aerosolization of virus-laden respiratory droplets from a host, its airborne dispersion and deposition on surfaces, as well as the subsequent inhalation of these bioaerosols by unsuspecting recipients.

~~The flow physics of COVID-19 | Journal of Fluid Mechanics ...~~

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University of Twente cooperating in the Research Institutes TechMed and MESA+ and is part of the Max Planck - University of Twente Center for Complex Fluid Dynamics and the Twente Centre for Scientific Computing.

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~~Flow visualization of an N95 respirator with and without ...~~

Mittal, R. Ni, and J.-H. Seo, “ The flow physics of COVID-19, ” J. Fluid Mech. 894, F2-1 – F2-14 (2020).

<https://doi.org/10.1017/jfm.2020.330> and they tend to settle quickly due to gravity. In contrast, smaller droplets remain suspended for longer periods of time and may evaporate into aerosols or droplet nuclei, presenting long range transmission risk.

~~Dispersion of evaporating cough droplets in tropical ...~~

Fluid mechanics. The engineering science concerned with the relation between the forces acting on fluids (liquids and gases) and their motions, and with the forces caused by fluids on their surroundings. It is distinct from solid mechanics by virtue of the different responses of fluids and solids to applied forces.

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This book is intended for astrophysicists who want to learn some fluid dynamics and plasma physics. The book does cover traditional topics of plasma physics books--kinetic theory, continuum hydrodynamics and magnetohydrodynamics, and plasma theory.

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