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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.

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~~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 witho

~~Fluid mechanics - Wikipedia~~

Flow physics plays a key role in nearly every facet of the

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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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to the Physics of Fluids group A chair which belongs to the Faculty of Science and Technology at the 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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are necessarily the best available for the purpose.

~~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>

0 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

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Introduction Fluids
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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