

mathematical theory of viscous pdf

The viscosity of a fluid is a measure of its resistance to gradual deformation by shear stress or tensile stress. For liquids, it corresponds to the informal concept of "thickness": for example, syrup has a higher viscosity than water. Viscosity can be conceptualized as quantifying the frictional force that arises between two adjacent layers of fluid that are in relative motion.

Viscosity - Wikipedia

In continuum mechanics, the vorticity is a pseudovector field that describes the local spinning motion of a continuum near some point (the tendency of something to rotate), as would be seen by an observer located at that point and traveling along with the flow.. Conceptually, vorticity could be determined by marking parts of a continuum in a small neighborhood of the point in question, and ...

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