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Since fluid dynamics involves the study of the motion of fluid, one of the first concepts that must be understood is how physicists quantify that movement. The term that physicists use to describe the physical properties of the movement of liquid is flow. Flow describes a wide range of fluid movement, such blowing through the air, flowing through a pipe, or running along a surface.

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- Basic concepts of fluid dynamics
- Kinematics of fluid flows: translation/deformation/rotation, strain rates (tensor), stress, vorticity (tensor), etc.
- Revision on vector/tensor notations.
- 2. Method of flow analysis
- Frame of references: Lagrange/Eulerian, stream functions,
- Revision on N-S Equations
- Transport Equation for fluid flows.
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