fluid kinematics

Fluid Mechanics

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STUDY OF FLUID MOTION REGARDLESS THE CAUSE OF THE FLUID MOTION

- DISPLACEMENT
- VELOCITY
- ACCELERATION

FLUID KINEMATICS

• Kinematic behavior of fluid is studied at various points in the fluid domain without considering the pressure or forces

Langragian approach Eulerian approach

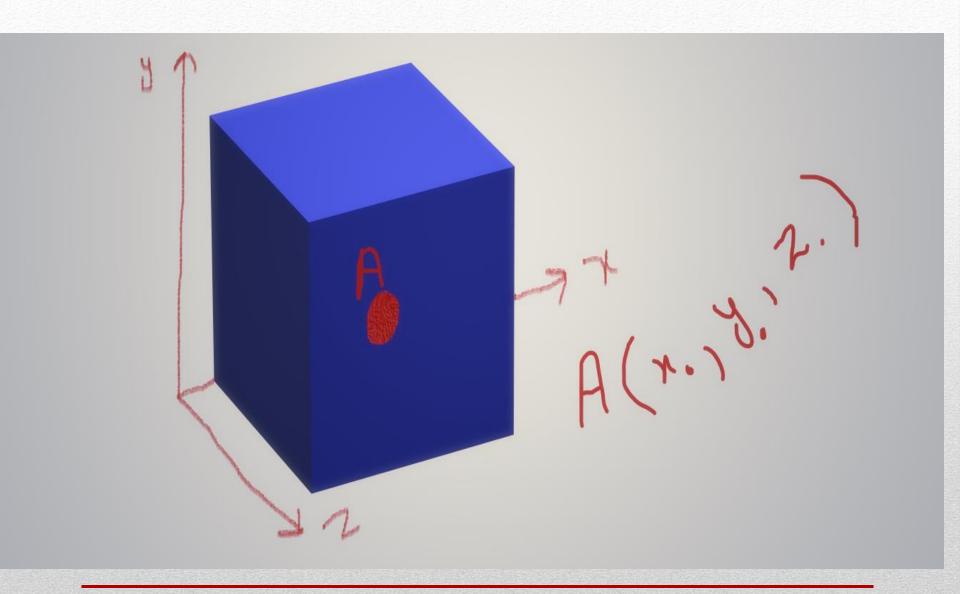
Two approaches of fluid kinematics

Langragian approach

Lagrangian approach deals with individual particles and calculates the trajectory of each particle separately

The kinematic behavior of the fluid particle will e the function of its identity

Two approaches of fluid kinematics



Eulerian approach

the Eulerian approach deals with concentration of particles and calculates the overall diffusion and convection of a number of particles.

Two approaches of fluid kinematics

