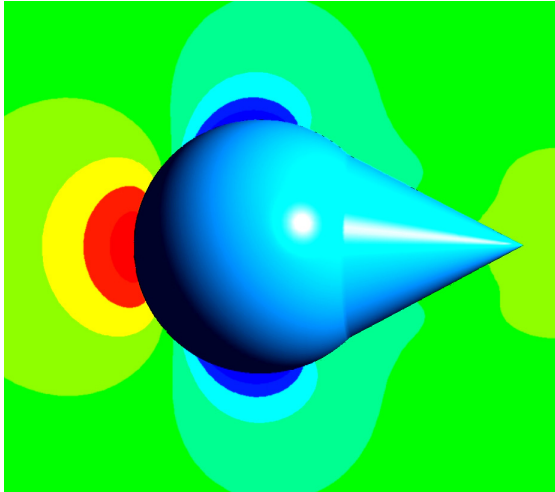




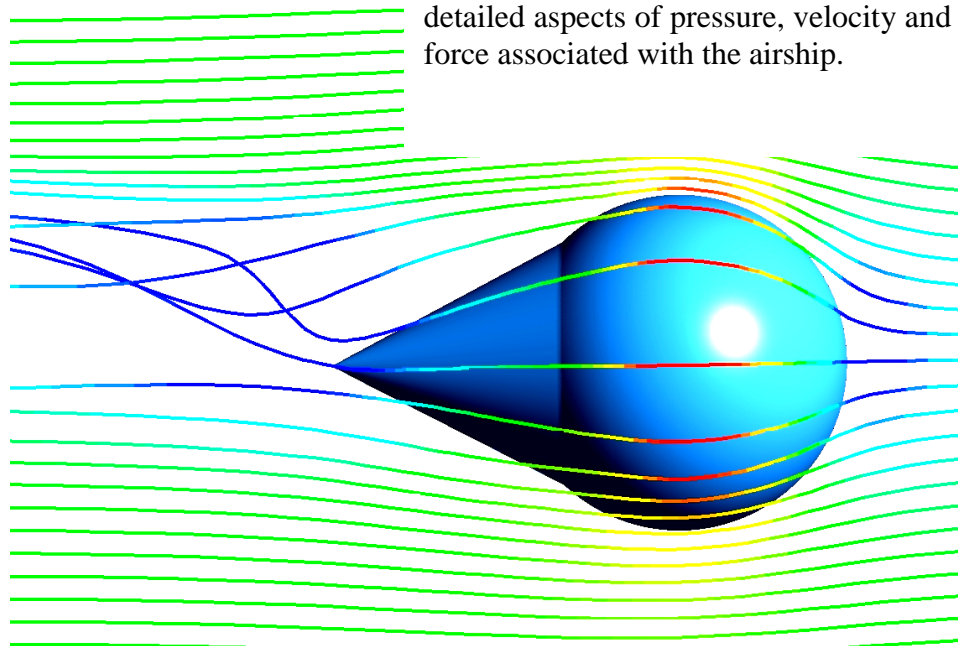
Virtual Simulation of a Small Airship



The requirement was to construct a CAD model of a proposed unmanned airship design, and to test it under transient flow conditions using a Computational Fluid Dynamics (CFD) virtual simulation.

The CFD model was used to determine drag force at various speeds under specific atmospheric conditions. Flow visualisation techniques were applied to assess the impact of the airship geometry. Optimised meshing and full transient analysis was carried out to capture the fluctuating wake field at specific flow speeds.

The simulation offered a cost-effective and time-efficient approach to explore detailed aspects of pressure, velocity and force associated with the airship.



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