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Introduction to Computational Fluid Dynamics

Computational Fluid Dynamics is the science of predicting fluid flow, heat transfer, mass transfer, chemical reaction and related phenomena by solving mathematical equations which govern these processes using numerical methods (i.e. on a computer).

Why CFD...?? Growth in complexity of unsolved engineering problem.

Need for quick solutions of moderate accuracy. Absence of analytical solutions.

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CFD enables scientists and engineers to perform 'numerical experiments' (i.e. computer simulations) in a 'virtual flow laboratory' real experiment CFD simulation

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