

## *Computational Fluid Dynamics Solution*

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Computational Fluid Dynamics. Computational fluid dynamics (CFD) is a science that, with the help of digital computers, produces quantitative predictions of fluid-flow phenomena based on the conservation laws (conservation of mass, momentum, and energy) governing fluid motion.

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Computational Fluid Dynamics! Beginning of CFD! Computational Fluid Dynamics! The MANIAC at Los Alamos had already stimulated considerable interest in numerical solutions at the Laboratory. However, CFD in the modern sense started with the formation of the T3 group. Early development in the Group focused on:

### **What is Computational Fluid Dynamics (CFD)?**

Computational fluid dynamics (CFD) is a branch of fluid mechanics that uses numerical analysis and data structures to analyze and solve problems that involve fluid flows. Computers are used to perform the calculations required to simulate the free-stream flow of the fluid, and the interaction of the fluid (liquids and gases) with surfaces defined by boundary conditions.

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