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In Computational Fluid Dynamics, numerical methods are used to solve the mathematical equations governing fluid flow. Colorado State University Department of Mechanical Engineering

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Computational Fluid Dynamics (CFD) is the art of replacing such Partial Differential Equations PDE systems by a set of algebraic equations which can be solved using digital computers. Three basic domains involved in CFD

Computational Fluid Dynamics  
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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Computational Fluid Dynamics for Engineers and Scientists Authors: Jayanti , Sreenivas Offers a comprehensive treatment of all aspects of CFD focusing on concepts

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To accomplish this, engineers can leverage advanced product-development modeling tools, such as computational fluid dynamics (CFD), to conduct simulations that replicate the near real-life operating conditions of a plant or mimic product performance requirements.

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