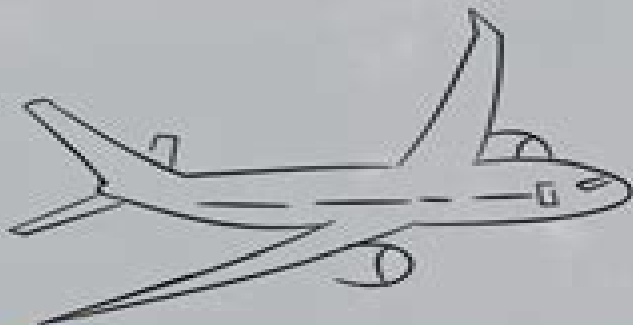


Computational fluid dynamics

- Computational Fluid Dynamics (CFD) is a branch of fluid mechanics that uses numerical analysis and algorithms to solve problems involving fluid flows
- The technology simulates the interaction of liquids and gases with surfaces, using various software to visualize and analyze their behavior
- CFD is crucial for designing aircraft, cars, and HVAC systems, enhancing performance and efficiency
- By predicting fluid behavior, engineers can innovate safer and more effective designs

Practical example: Aerospace

- Computational fluid dynamics (CFD) plays a crucial role in aerospace by analyzing the airflow around aircraft
- This analysis helps engineers design more efficient and safer aircraft by predicting how the planes would handle different air conditions
- CFD simulations make it possible to optimize shapes and structures without costly physical prototypes
- As a result, aircraft are more fuel-efficient, perform better, and have reduced emissions



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range of topics from interfacial shapes in hydrostatics to vortex dynamics to viscous flow to turbulent flow to panel methods for flow past airfoils The third edition includes new topics additional examples solved and unsolved problems and revised images It adds more computational algorithms and MATLAB programs It also incorporates discussion of the latest version of the fluid dynamics software library FDLIB which is freely available online FDLIB offers an extensive range of computer codes that demonstrate the implementation of elementary and advanced algorithms and provide an invaluable resource for research teaching classroom instruction and self study This book is a must for students in all fields of engineering computational physics scientific computing and applied mathematics It can be used in both undergraduate and graduate courses in fluid mechanics aerodynamics and computational fluid dynamics The audience includes not only advanced undergraduate and entry level graduate students but also a broad class of scientists and engineers with a general interest in scientific computing

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