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Computational fluid dynamics 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 with surfaces defined by boundary conditions. With high-speed supercomputers, better solutions can be achieved, and are often required to solve the largest and most complex problems. Ongoing research

Computational fluid dynamics - Wikipedia

The fluidyn-CHT module (Conjugate Heat Transfer) is dedicated to the simulation of heat transfer in fluid and structures : conduction, convection and radiation. The numerical methods have been chosen in order to model as precisely as possible each domain : fluids and structures with a timestep adapted to each domain of resolution thus reducing the computational cost of the conjugate heat transfer modelling.

Fluidyn-MP - Software for fluid dynamics simulation

This book provides an accessible introduction to the basic theory of fluid mechanics and computational fluid dynamics (CFD) from a modern perspective that unifies theory and numerical computation. Methods of scientific computing are introduced alongside with theoretical analysis and MATLAB® codes are presented and discussed for a broad range of topics: from interfacial shapes in hydrostatics, to vortex dynamics, to viscous flow, to turbulent flow, to panel methods for flow past airfoils.

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Numerical simulation. The Newton – Raphson method or a different fixed-point iteration can be used to solve FSI problems. Methods based on Newton – Raphson iteration are used in both the monolithic and the partitioned approach. These methods solve the nonlinear flow equations and the structural equations in the entire fluid and solid domain with the Newton – Raphson method.

Fluid – structure interaction - Wikipedia

In the last sixty years the simulation of fluid flows has been so relevant that CFD (computational fluid dynamics) has become a discipline that is included in any textbook of Fluid Mechanics.

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Numerical Simulations - Examples and Applications in Computational Fluid Dynamics. Edited by: Lutz Angermann. ISBN 978-953-307-153-4, PDF ISBN 978-953-51-5966-7, Published 2010-12-30

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