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Engineering flows are intrinsically unsteady (even if just due to turbulence). However, because of computational expense, this aspect is often ignored. Of course computing power continues to rise. The use of Graphical Processor Units for number processing is showing promise with rival technologies beginning to emerge.

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Unsteady Computational Fluid Dynamics in Aeronautics

Unsteady Computational Fluid Dynamics in Aeronautics P.G. Tucker The future challenges faced in aeronautical engineering to meet legislative targets to protect the environment are outlined.

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Read "Unsteady Computational Fluid Dynamics in Aeronautics" by P.G. Tucker with Rakuten Kobo. The field of Large Eddy Simulation (LES) and hybrids is a vibrant research area. This book runs through all the potential

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Computational fluid dynamics Wikipedia

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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Get this from a library! Unsteady computational fluid dynamics in aeronautics. [Paul G Tucker] -- The field of Large Eddy Simulation (LES) and hybrids is a vibrant research area. This book runs through all the potential unsteady modelling fidelity ranges, from low-order to LES. The latter is

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Topics treated include unsteady flow techniques; LES and hybrids; general numerical methods;

computational aeroacoustics; computational aeroelasticity; coupled simulations and turbulence and its modelling (LES, RANS, transition, VLES, URANS). The volume concludes by pointing forward to future horizons and in particular the industrial use of LES. The writing style is accessible and useful to both academics and industrial practitioners.

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