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CFD METHODS: Overview of CFD Techniques Derivation of

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Computational Fluid Dynamics Explained Stefano Marelli:

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and Aircraft Engines demonstrates that some geometries are not affected by manufacturing errors, meaning that it is possible to design safer engines. Instead of trying to improve the manufacturing accuracy, uncertainty quantification when applied to CFD is able to indicate an improved design direction.

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Uncertainty Quantification in Computational Fluid Dynamics

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The quantification of uncertainty in computational fluid dynamics (CFD) predictions is both a significant challenge and an important goal. Probabilistic uncertainty quantification (UQ) methods have been used to propagate uncertainty from model inputs to outputs when input uncertainties are large and have been characterized probabilistically.

Uncertainty Quantification and Polynomial Chaos Techniques ...

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The primary objective of the course is to introduce students to state-of-the-art methods for uncertainty propagation and quantification in model-based computations, focusing on the computational and algorithmic features of these methods most useful in dealing with systems specified in terms of stochastic ordinary and partial differential equations.

Fundamentals of Uncertainty Quantification in ...

Uncertainty Quantification (UQ) is common practice for most fast running codes, which easily allow to run thousands of simulations. However, for computationally demanding codes, like often the case for Computational Fluid Dynamics (CFD) simulations, UQ is a challenge.

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Uncertainty Quantification method for CFD validated for ...
This third edition focuses on Uncertainty Quantification in Fluid Dynamics. Thanks to the rapidly growing computational resources and to the improvements in numerical and experimental techniques, increasingly complex fluid dynamics problems are nowadays investigated both numerically and experimentally.

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Uncertainty Quantification in Computational Fluid Dynamics

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This book presents applications of spectral methods to problems of uncertainty propagation and quantification in

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model-based computations, focusing on the computational and algorithmic features of these methods most useful in dealing with models based on partial differential equations, in particular models arising in simulations of fluid flows.

Spectral Methods for Uncertainty Quantification - With ...
Fluid flows are characterized by uncertain inputs such as random initial data, material and flux coefficients, and boundary conditions. The current volume addresses the pertinent issue of efficiently computing the flow uncertainty, given this initial randomness.

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