

Spectral Methods For Uncertainty Quantification With Applications To Computational Fluid Dynamics Scientific Computation

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November 9th, 2018 - This book presents applications of spectral methods to problems of uncertainty propagation and quantification in 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

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November 8th, 2018 - With Applications to Computational Fluid Dynamics Authors Le Maitre Olivier Knio Omar M Offers an application oriented introduction into spectral methods for uncertainty propagation and quantification in model based computations

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MA4K0 Introduction to Uncertainty Quantification

November 5th, 2018 - Uncertainty Quantification UQ is a research area of growing theoretical and practical importance at the intersection of applied mathematics probability statistics computational science and engineering CSE and many application areas

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Stochastic Spectral Methods for Uncertainty Quantification

November 2nd, 2018 - Stochastic Spectral Methods for Uncertainty Quantification Olivier Le Maître 1 23 Omar Knio 1 Duke University Durham North Carolina 2 KAUST Saudi Arabia UQ methods Computational approaches II Solution spaces We assume that $U \subset V$ almost surely The Hilbert space V is equipped with the inner product

Review of Uncertainty Methods for Computational Fluid

November 10th, 2018 - Single phase Computational Fluid Dynamics CFD is used more and more for design and safety issues related to Light Water Reactor LWR thermal hydraulics Over the past ten years the Working Group for the Analysis and Management of Accidents WGAMA has initiated activities to promote the use of CFD for Nuclear Reactor Safety NRS

Springer Spectral Methods Evolution to Complex Geometries

November 11th, 2018 - 2017 04 05 PDF Spectral Methods for Uncertainty Quantification With Applications to Computational Fluid Dynamics Scientific Computation 2012 02 20 Spectral Methods for Uncertainty Quantification With Applications to Computational Fluid Dynamics Scientific Computation O P Le Maître

Mohsen Zayernouri Computational Mathematics Science and

November 5th, 2018 - The main thrust of research in FMATH is on fractional order modeling numerical analysis FEM spectral methods and spectral element methods computational fluid dynamics data driven and learning algorithms for fractional PDEs stochastic PDEs and high performance computing

Quantification of numerical uncertainty in computational

November 13th, 2018 - Quantification of the numerical uncertainty in the current study was achieved by applying the GCI method proposed by Roache

1994 The GCI is based on the generalized theory of Richardson extrapolation and involves the comparison of discrete solutions at two different grids of spacing h Richardson 1911 Richardson and Gaunt 1927

Fundamentals of Uncertainty Quantification In

October 27th, 2018 - 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

Uncertainty Propagation in Nerve Impulses Through the

November 26th, 2016 - Le Maître OP Knio OM Spectral Methods for Uncertainty Quantification With Applications to Computational Fluid Dynamics Dordrecht Springer 2010 Scientific Computation

M Y Hussaini Google Scholar Citations

October 24th, 2018 - Spectral methods in fluid dynamics C Canuto MY Hussaini A Quarteroni A Thomas Jr Stochastic approaches to uncertainty quantification in CFD simulations L Mathelin MY Hussaini TA Zang Numerical Algorithms 38 evolution to complex geometries and applications to fluid dynamics scientific computation CG Canuto MY Hussaini AM

Sparse Grids and Applications Stuttgart 2014 by Jochen

November 15th, 2018 - The booklet additionally discusses a number of purposes together with uncertainty quantification and plasma physics Show description L M Knio Spectral Methods for Uncertainty Quantification With Applications to Computational Fluid Dynamics Scientific Computation Springer Dordrecht New York 2010 18 P

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