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Discontinuous Galerkin Methods Theory Computation

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A class of finite element methods, the Discontinuous Galerkin Methods (DGM), has been under rapid development recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, MHD and plasma simulations, and image processing.

Discontinuous Galerkin Methods: Theory, Computation and ...

This volume contains current progress of a new class of finite element method, the Discontinuous Galerkin Method (DGM), which has been under rapid developments recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, Magneto-hydro-dynamics, plasma simulations and image processing.

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Discontinuous Galerkin Methods - Theory, Computation and ...

(PDF) Discontinuous Galerkin methods: theory, computation and application (lecture notes in computational science and engineering), by B. Cockburn, G. E. Karniadakis and C.-W. Shu (eds), Springer, Berlin, 2000. ISBN 3-540-66787-3, GB £51.50 | Chi-wang Shu - Academia.edu Academia.edu is a platform for academics to share research papers.

(PDF) Discontinuous Galerkin methods: theory, computation ...

The discontinuous Galerkin method (DGM) and the continuous Galerkin method (CGM) are investigated and compared for the advection problem and the diffusion problem. First, error estimates for...

Discontinuous Galerkin Methods: Theory, Computation

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In applied mathematics, discontinuous Galerkin methods form a class of numerical methods for solving differential equations. They combine features of the finite element and the finite volume framework and have been successfully applied to hyperbolic, elliptic, parabolic and mixed form problems arising from a wide range of applications. DG methods have in particular received considerable interest for problems with a dominant first-order part, e.g. in electrodynamics, fluid mechanics and plasma physics

Discontinuous Galerkin method - Wikipedia

This paper develops a new computational formulation that combines the advantages of discontinuous Galerkin methods with the data structure of their continuous Galerkin counterparts. The new method uses local, element-wise problems to project a continuous finite element space into a given discontinuous

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space, and then applies a discontinuous Galerkin formulation.

Discontinuous Galerkin Methods: Theory, Computation and ...

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This volume contains current progress of a new class of finite element method, the Discontinuous Galerkin Method (DGM), which has been under rapid developments recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, Magneto-

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hydro-dynamics, plasma simulations and image processing.

Discontinuous Galerkin Methods | SpringerLink

Nodal Discontinuous Galerkin Methods Algorithms, Analysis, and Applications This book discusses the discontinuous Galerkin family of computational methods for solving partial differential equations. While these methods have been known since the early 1970s, they have experienced a phenomenal growth in interest dur-

Discontinuous Galerkin methods Lecture 1

Discontinuous Galerkin methods. Theory, computation and applications (Newport, RI, 1999). Number 11 in Lecture Notes in Computational Science and Engineering. Springer-Verlag, Berlin, 2000. Google Scholar

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A high order gas-kinetic discontinuous Galerkin method for viscous flow computation is proposed. Different from the traditional DG methods for the Navier–Stokes equations, the current scheme adopts a multi-dimensional kinetic formulation to obtain both inviscid and viscous fluxes.

A multi-dimensional high-order discontinuous Galerkin ...

BOOK REVIEWS Computational Galerkin methods CA. J. Fletcher Springer-Verlag, Berlin, Heidelberg, New York, Tokyo, 1984, 302 pp., \$40.00 The aim of this well written and presented book is to consider finite element (FE), finite difference (FD) and global element (GE) methods within the context of the Galerkin formulation.

Computational Galerkin methods - PDF Free Download

Among them, the discontinuous Galerkin (DG) method is widely used in the CFD society mainly because of its rigorous

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mathematical background and intuitive formulations. Although DG methods have been successful for various applications, there are still a few hurdles to be resolved for realistic applications.

Direct reconstruction method for discontinuous Galerkin

...

Discontinuous Galerkin (DG) methods for solving partial differential equations, developed in the late 1990s, have become popular among computational scientists.

Discontinuous Galerkin Methods for Solving Elliptic and

...

Abstract. The radiative transfer equation (RTE) arises in many different areas of science and engineering. In this paper, we propose and investigate a discrete-ordinate discontinuous-streamline diffusion (DODSD) method for solving the RTE, which is a combination of the discrete-ordinate technique and the

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discontinuous-streamline diffusion method. Different from the discrete-ordinate discontinuous Galerkin (DODG) method for the RTE, an artificial diffusion parameter is added to the test ...

A Discrete-Ordinate Discontinuous-Streamline Diffusion

...

A class of finite element methods, the Discontinuous Galerkin Methods (DGM), has been under rapid development recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, MHD and plasma simulations, and image processing.

Discontinuous Galerkin Methods : Theory, Computation and ...

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which has been under rapid developments recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, Magneto-hydro-dynamics, plasma simulations and image processing.

Discontinuous Galerkin Methods : Theory, Computation and ...

Concurrently, other discontinuous Galerkin formulations for parabolic and elliptic problems were proposed [2-7]. In an effort to classify existing DG methods for elliptic problems, Arnold et al. published, first in Reference [8] and then more fully in Reference [9], a unified analysis of discontinuous Galerkin methods for elliptic problems.

On 2D elliptic discontinuous Galerkin methods

Publications in Refereed Book Chapters, Proceedings and Lecture

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Notes. B. Cockburn and C.-W. Shu, A new class of non-oscillatory discontinuous Galerkin finite element methods for conservation laws, Proceedings of the 7th International Conference of Finite Element Methods in Flow Problems, UAH Press, 1989, pp.977-986. S. Osher and C.-W. Shu, Recent progress on non-oscillatory shock capturing ...

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