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About this book. 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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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...

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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 space, and then applies a discontinuous Galerkin formulation.

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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 ph

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Discontinuous Galerkin Methods Theory Computation And the discontinuous galerkin method is seemingly immune to many of the problems that commonly plague high order finite difference methods and as such has the potential to bring the robustness of Discontinuous Galerkin Methods Theory Computation And

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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 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 ...~~

This allows us to partition the computational domain into subdomains of polygons of arbitrary shapes, so that all atoms are located at the interior of a subdomain. This is achieved using a partitioning strategy based on the Voronoi decomposition. We refer to this procedure as the discontinuous Galerkin formalism with Voronoi partitioning (DG-

~~Discontinuous Galerkin method with Voronoi~~

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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.

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In this final chapter we present the discontinuous Galerkin (dG) method. This method is based on finite element spaces that consist of discontinuous piecewise polynomials defined on a partition of the computational domain.

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