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Understanding the mathematical foundations helps the reader design methods for new applications Bridging the gap between finite volumes, finite elements, and discontinuous Galerkin methods provides new insight on numerical methods The mathematical setting for the continuous model is a key to

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The analysis is presented in a rigorous mathematical setting where discrete counterparts of the key properties of the continuous problem are identified. The framework encompasses fairly general meshes regarding element shapes and hanging nodes. Salient implementation issues are also addressed.

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The aim of the book is to provide the reader with the basic mathematical concepts to design and analyze discontinuous Galerkin methods for various model problems, starting at an introductory level and further elaborating on more advanced topics. Some useful practical implementation aspects are considered in an Appendix. The bibliography contains more than 300 entries. (Calin

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They present the advantage to be suited to elliptic and parabolic problems, while opening the possibility to closely approximate weakly regular functions on

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Mathematical aspects of discontinuous galerkin methods [Daniele Antonio Di Pietro; Alexandre Ern] -- This text introduces the basic ideas to build discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments. The presentation is to a large extent

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discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments. It is to a large extent self-contained and is intended for graduate students and researchers in numerical analysis.

The material covers a

DISCONTINUOUS GALERKIN METHODS FOR ADVECTION(DIFFUSION, ...

Key words: Anisotropic mesh adaptation, discontinuous Galerkin methods, PDEs with non-negative characteristic form AMS subject classifications: 65N30 1. Introduction. The mathematical modeling of advection, diffusion, and reaction processes arises in many application areas. Typically, the diffusion is often small (compared to the magnitude of the advection and/or reaction), degenerate, or even

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Understanding the mathematical foundations helps the reader design methods for new applications Bridging the gap between finite volumes, finite elements, and discontinuous Galerkin methods provides new insight on numerical methods The mathematical setting for the continuous model is a key to

Discontinuous Galerkin method - Wikipedia

In applied mathematics, discontinuous Galerkin methods (DG 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.

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springer. This book introduces the basic ideas to build discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments. The presentation is to a large extent self-contained and is intended for graduate students and researchers in numerical analysis. The material covers a wide range of model problems.

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The Development of Discontinuous Galerkin Methods

...

In this paper, we present an overview of the evolution of the discontinuous Galerkin methods since their introduction in 1973 by Reed and Hill, in the framework of neutron transport, until their

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This book introduces the basic ideas to build discontinuous Galerkin methods and, at the same time, incorporates several recent mathematical developments.