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Introduction. This book introduces the basic ideas for building discontinuous Galerkin methods and, at the same time, incorporates several recent

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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 wide range of model problems, both steady and unsteady, elaborating from advection-reaction and diffusion problems up to the Navier-Stokes equations and Friedrichs'

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systems.

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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

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introductory level and further
elaborating on more advanced topics'. ...
Some useful practical implementation
aspects are considered in an Appendix.

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methods

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**Mathematical Aspects of
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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

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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 method - Wikipedia

This course addresses the practical implementation and theory of discontinuous Galerkin (DG) methods for time-dependent linear and nonlinear partial differential equations. The course will cover both theory and

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implementation in the Julia programming language. Students are expected to be able to produce working implementations of high order DG methods in one and two dimensions and analyze their stability and accuracy.

CAAM 542 · Discontinuous Galerkin Methods

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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. The material covers a wide range of model problems, both steady and unsteady, elaborating from advection-reaction and diffusion problems up to the Navier-Stokes

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approximations for the Stokes problem,

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to appear in Math. Models Methods Appl.
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Combining the mixed discontinuous
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