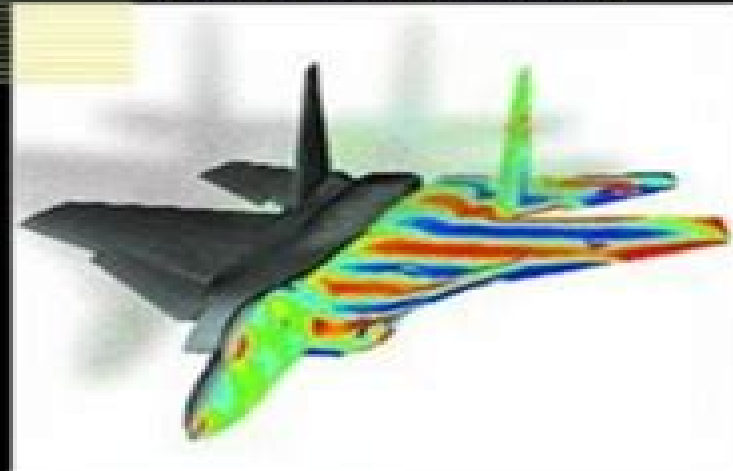


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# Discontinuous Galerkin Methods

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# Discontinuous Galerkin Methods Theory Computation And Applications

**Allen Taflove, Susan C. Hagness**



## **Discontinuous Galerkin Methods Theory Computation And Applications:**

Discontinuous Galerkin Methods Bernardo Cockburn, George E. Karniadakis, Chi-Wang Shu, 2012-12-06 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 While there has been a lot of interest from mathematicians physicists and engineers in DGM only scattered information is available and there has been no prior effort in organizing and publishing the existing volume of knowledge on this subject In May 24 26 1999 we organized in Newport Rhode Island USA the first international symposium on DGM with equal emphasis on the theory numerical implementation and applications Eighteen invited speakers lead ers in the field and thirty two contributors presented various aspects and addressed open issues on DGM In this volume we include forty nine papers presented in the Symposium as well as a survey paper written by the organizers All papers were peer reviewed A summary of these papers is included in the survey paper which also provides a historical perspective of the evolution of DGM and its relation to other numerical methods We hope this volume will become a major reference in this topic It is intended for students and researchers who work in theory and application of numerical solution of convection dominated partial differential equations The papers were written with the assumption that the reader has some knowledge of classical finite elements and finite volume methods

**The Finite Element Method: Theory, Implementation, and Applications** Mats G. Larson, Fredrik Bengzon, 2013-01-13 This book gives an introduction to the finite element method as a general computational method for solving partial differential equations approximately Our approach is mathematical in nature with a strong focus on the underlying mathematical principles such as approximation properties of piecewise polynomial spaces and variational formulations of partial differential equations but with a minimum level of advanced mathematical machinery from functional analysis and partial differential equations In principle the material should be accessible to students with only knowledge of calculus of several variables basic partial differential equations and linear algebra as the necessary concepts from more advanced analysis are introduced when needed Throughout the text we emphasize implementation of the involved algorithms and have therefore mixed mathematical theory with concrete computer code using the numerical software MATLAB and its PDE Toolbox We have also had the ambition to cover some of the most important applications of finite elements and the basic finite element methods developed for those applications including diffusion and transport phenomena solid and fluid mechanics and also electromagnetics

**Theory and Computation of Electromagnetic Fields** Jian-Ming Jin, 2011-03-16 This book is intended to serve as a textbook for an entry level graduate course on electromagnetics first seven chapters and for an advanced level graduate course on computational electromagnetics last five chapters Whereas there are several textbooks available for the graduate electromagnetics course no textbook is available for the advanced course on computational electromagnetics This

book is intended to fill this void and present electromagnetic theory in a systematic manner so that students can advance from the first course to the second without much difficulty. Even though the first part of the book covers the standard basic electromagnetic theory, the coverage is different from that in existing textbooks. This is mainly the result of the undergraduate curriculum reform that occurred during the past two decades. Many universities reduced the number of required courses in order to give students more freedom to design their own portfolio. As a result, only one electromagnetics course is required for undergraduate students in most electrical engineering departments in the country. New graduate students come to take the graduate electromagnetics course with a significant difference in their knowledge of basic electromagnetic theory. To meet the challenge to benefit all students of backgrounds, this book covers both fundamental theories such as vector analysis, Maxwell's equations and boundary conditions, and transmission line theory, and advanced topics such as wave transformation, addition theorems, and scattering by a layered sphere.

*Computational Fluid Dynamics Review 2010* Mohamed M Hafez, Koichi Oshima, Dochan Kwak, 2010-07-05. This volume contains 25 review articles by experts which provide up-to-date information about the recent progress in computational fluid dynamics (CFD). Due to the multidisciplinary nature of CFD, it is difficult to keep up with all the important developments in related areas. CFD Review 2010 would therefore be useful to researchers by covering the state of the art in this fast-developing field.

*Large-Scale Scientific Computing* Ivan Lirkov, 2006-02-14. This book constitutes the thoroughly refereed post-proceedings of the 5th International Conference on Large Scale Scientific Computations (LSSC 2005) held in Sozopol, Bulgaria, in June 2005. The 75 revised full papers presented together with five invited papers were carefully reviewed and selected for inclusion in the book. The papers are organized in topical sections.

**Handbook of Optoelectronic Device Modeling and Simulation** Joachim Piprek, 2017-10-12. Optoelectronic devices are now ubiquitous in our daily lives, from light-emitting diodes (LEDs) in many household appliances to solar cells for energy. This handbook shows how we can probe the underlying and highly complex physical processes using modern mathematical models and numerical simulation for optoelectronic device design, analysis, and performance optimization. It reflects the wide availability of powerful computers and advanced commercial software which have opened the door for non-specialists to perform sophisticated modeling and simulation tasks. The chapters comprise the know-how of more than a hundred experts from all over the world. The handbook is an ideal starting point for beginners but also gives experienced researchers the opportunity to renew and broaden their knowledge in this expanding field.

*Discontinuous Galerkin Methods for Solving Elliptic and Parabolic Equations* Beatrice Riviere, 2008-01-01. Discontinuous Galerkin (DG) methods for solving partial differential equations developed in the late 1990s have become popular among computational scientists. This book covers both theory and computation as it focuses on three primal DG methods: the symmetric interior penalty Galerkin, incomplete interior penalty Galerkin, and nonsymmetric interior penalty Galerkin, which are variations of interior penalty methods. The author provides the basic tools for analysis and discusses

coding issues including data structure construction of local matrices and assembling of the global matrix Computational examples and applications to important engineering problems are also included *Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2020+1* Jens M. Melenk, Ilaria Perugia, Joachim Schöberl, Christoph Schwab, 2023-06-30 The volume features high quality papers based on the presentations at the ICOSAHOM 2020 1 on spectral and high order methods The carefully reviewed articles cover state of the art topics in high order discretizations of partial differential equations The volume presents a wide range of topics including the design and analysis of high order methods the development of fast solvers on modern computer architecture and the application of these methods in fluid and structural mechanics computations **Encyclopedia of Computational Mechanics** Erwin Stein, René de Borst, Thomas J. R. Hughes, 2004 The Encyclopedia of Computational Mechanics provides a comprehensive collection of knowledge about the theory and practice of computational mechanics *Boundary-conforming Discontinuous Galerkin Methods Via Extensions from Subdomains* Deepa Mahajan, 2007 *A Local Discontinuous Galerkin Method for KdV-type Equations* Jue Yan, 2001 In this paper we develop a local discontinuous Galerkin method for solving KdV type equations containing third derivative terms in one and two space dimensions The method is based on the framework of the discontinuous Galerkin method for conservation laws and the local discontinuous Galerkin method for viscous equations containing second derivatives however the guiding principle for inter cell fluxes and nonlinear stability is new We prove  $L^2$  stability and a cell entropy inequality for the square entropy for a class of nonlinear PDEs of this type both in one and multiple spatial dimensions and give an error estimate for the linear cases in the one dimensional case The stability result holds in the limit case when the coefficients to the third derivative terms vanish hence the method is especially suitable for problems which are *Local Discontinuous Galerkin Methods for Convection-diffusion and Elliptic Problems* Paul Eduardo Castillo, 2001 **SIAM Journal on Scientific Computing**, 2008 *Local Discontinuous Galerkin Methods for Partial Differential Equations with Higher Order Derivatives* Jue Yan, 2002 In this paper we review the existing and develop new local discontinuous Galerkin methods for solving time dependent partial differential equations with higher order derivatives in one and multiple space dimensions We review local discontinuous Galerkin methods for convection diffusion equations involving second derivatives and for KdV type equations involving third derivatives We then develop new local discontinuous Galerkin methods for the time dependent bi harmonic type equations involving fourth derivatives and partial differential equations involving fifth derivatives For these new methods we present correct interface numerical fluxes and prove  $L^2$  stability for general nonlinear problems Preliminary numerical examples are shown to illustrate these methods Finally we present new results on a post processing technique originally designed for methods with good negative order error estimates on the local discontinuous Galerkin methods applied to equations with higher derivatives Numerical experiments show that this technique works as well for the new higher derivative cases in effectively doubling the rate of convergence with negligible additional computational cost for linear

as well as some nonlinear problems with a local uniform mesh

Computational Electrodynamics Allen Taflov, Susan C. Hagness, 2005 This extensively revised and expanded third edition of the Artech House bestseller *Computational Electrodynamics The Finite Difference Time Domain Method* offers you the most up to date and definitive resource on this critical method for solving Maxwell's equations There has been considerable advancement in FDTD computational technology over the past few years and this new edition brings you the very latest details with four new invited chapters on advanced techniques for PSTD unconditional stability provably stable FDTD FETD hybrids and hardware acceleration Moreover you find many completely new sections throughout the book including major updates on convolutional PML ABCs dispersive nonlinear classical gain and quantum gain materials and micro nano and bio photonics

*Proceedings of the 4th ASME/JSME Joint Fluids Engineering Conference* Ali Ogut, Yutaka Tsuji, Masaaki Kawahashi, 2003

**High Order Finite Difference and Finite Volume WENO Schemes and Discontinuous Galerkin Methods for CFD** Chi-Wang Shu, 2001 In recent years high order numerical methods have been widely used in computational fluid dynamics CFD to effectively resolve complex flow features using meshes which are reasonable for today's computers In this paper we review and compare three types of high order methods being used in CFD namely the weighted essentially non oscillatory WENO finite difference methods the WENO finite volume methods and the discontinuous Galerkin DG finite element methods We summarize the main features of these methods from a practical user's point of view indicate their applicability and relative strength and show a few selected numerical examples to demonstrate their performance on illustrative model CFD problems

ESAIM, 2006

*SIAM Journal on Numerical Analysis*, 2001

**High-Order/Spectral Methods on Unstructured Grids** J. S. Hesthaven, 2001 We present an ab initio development of a convergent high order accurate scheme for the solution of linear conservation laws in geometrically complex domains As our main example we present a detailed development and analysis of a scheme suitable for the time domain solution of Maxwell's equations in a three dimensional domain The fully unstructured spatial discretization is made possible by the use of high order nodal basis employing multivariate Lagrange polynomials defined on the triangles and tetrahedra Careful choices of the unstructured nodal grid points ensure high order spectral accuracy while the equations themselves are satisfied in a discontinuous Galerkin form with the boundary conditions being enforced weakly through a penalty term Accuracy stability and convergence of the semi discrete approximation to Maxwell's equations is established rigorously and bounds on the global divergence error are provided Concerns related to efficient implementations are discussed in detail This sets the stage for the presentation of examples verifying the theoretical results as well as illustrating the versatility flexibility and robustness when solving two and three dimensional benchmarks in computational electromagnetic Pure scattering as well as penetration is discussed and high parallel performance of the scheme is demonstrated

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