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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

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is the mathematical theory of the discontinuous Galerkin method (DGM), which is a relatively new technique for the numerical solution of partial differential equations. The book is concerned with the DGM developed for elliptic and parabolic equations and its applications to the numerical simulation of compressible flow.

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discontinuous Galerkin

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presentation is to a

large extent self-

contained and is

intended for graduate

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present a  
superconvergence  
result for the local  
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(LDG) method for a  
model elliptic problem  
on Cartesian grids. We  
identify a special  
numerical flux for

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which the  $L^2$ -norm of the gradient and the  $L^2$ -norm of the potential are of orders  $k + 1/2$  and  $k + 1$ , respectively, when tensor product polynomials of degree at most  $k$  are used; for arbitrary meshes, this special LDG method gives only the orders of convergence of  $k$  and  $k + 1/2$ , respectively.

### **Superconvergence of the Local**

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