Discontinuous Galerkin Methods For Viscous Incompressible Flow

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Guido Kanschat reviews several discontinuous Galerkin schemes for elliptic and viscous flow problems. Setting out from Nitsche's method for weak boundary conditions, he studies the interior penalty and LDG methods. Combined with a stable advection discretization, they yield stable DG methods for linear flow problems of Stokes and Oseen type which are applied to the Navier-Stokes problem. The author not only presents the analytical techniques used to study these methods but also devotes a major discussion to the efficient numerical solution of discrete problems. EAN/ISBN : 9783835055193 Publisher(s): Deutscher Universittsverlag, Teubner Discussed keywords: Galerkinsche Methode, Viskoelastizitt Format: ePub/PDF Author(s): Kanschat, Guido

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