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(Discontinuous Galerkin Density Functional Theory) method-ology for performing efficient large-scale Kohn-Sham DFT calculations. The methodology is based on the combination of the adaptive local basis (ALB) set¹¹ and the pole expansion and selected inversion (PEXSI) technique.^{12–14} The ALB functions are localized in the real space and ...

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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

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Computational Science and Engineering. Springer-Verlag, Berlin, 2000. Google Scholar

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Discontinuous Galerkin Methods: Theory, Computation and Applications . 2011. Abstract. This volume contains current progress of a new class of finite element method, the Discontinuous Galerkin Method (DGM), which has been under rapid ...

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This volume contains current progress of a new class of finite element method, the Discontinuous Galerkin Method (DGM), which has been under rapid developments recently and has found its use very quickly in such diverse applications as aeroacoustics, semi-conductor device simulation, turbomachinery, turbulent flows, materials processing, Magneto-hydro-dynamics, plasma simulations and image ...

Discontinuous Galerkin Methods : Theory, Computation and ...

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@article{osti_837068, title = {Discontinuous Galerkin Methods: Theory, Computation and Applications}, author = {Cockburn, B and Karniadakis, G E and Shu, C-W}, abstractNote = {This volume contains a survey article for Discontinuous Galerkin Methods (DGM) by the editors as well as 16 papers by invited speakers and 32 papers by contributed speakers of the First International Symposium on ...

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