
Adaptive High Order Methods In Computational Fluid Dynamics

adaptive and high-order methods for valuing american options - naturally extended to two or more dimensions. the high-order methods in the spatial dimension are built upon the efficient and high-order qsc methods of [6]. second-order fddiscretization for the spatial variable is also considered. adaptive techniques based on the equidistribution principle of [11] are introduced into the space dimension. **adaptive high-order splitting methods for systems of ...** - tions, adaptive high-order time-discretizations are central. in some applications, the promised speed-up will be critical for the feasibility of a simulation. in many realistic models, the stiffness of the operators a and b is different, which suggests to use splitting methods which separately propagate the two vector fields. if a is a lin- **construction of high-order adaptive implicit methods for ...** - construction of high-order adaptive implicit methods for reservoir simulation a report submitted to the department of energy resources engineering of stanford university in partial fulfillment of the requirements for the degree of master of science by romain de loubens june 2007 **adaptive high-order methods for fluid flows authors: lott ...** - adaptive high-order methods for fluid flows authors: lott & deane applied mathematics and scientific computation the goal of this research is to construct an adaptive spectral element method to solve non-linear pde's. **adaptive methods for stochastic differential equations via ...** - adaptive methods for stochastic differential equations via natural embeddings and rejection sampling with memory ... adaptive time-stepping with high-order embedded runge-kutta ... mate for high-order srk methods with no additional function evaluations. using **implementation of high -order adaptive cfd methods on gpgpus** - implementation of high -order adaptive cfd methods on gpgpus z.j. wang (zjw@iastate) department of aerospace engineering and cfd center, iowa state university overview test case most production/commercial computational fluid []fn subsonic flow over a naca0012 airfoil, $m = 0.3$, $\alpha = 1$ deg. dynamics codes are only 1st or 2nd order accurate ... **adaptive rans solution with the high-order correction ...** - adaptive rans solution with the high-order correction procedure via reconstruction method lei shi, cheng zhouyand z.j. wang z department of aerospace engineering, university of kansas, lawrence, ks, 66045 **adaptive filtering and limiting in compact high order ...** - adaptive filtering and limiting in compact high order methods for multiscale gas dynamics and mhd systems h.c. yee a,*, b. sjo"green b a nasa ames research center, moffett field, ca 94035, usa b nada, kth, stockholm, sweden available online 24 august 2007 **parallel high-order geometric multigrid methods on ...** - parallel high-order geometric multigrid methods on adaptive meshes for highly heterogeneous nonlinear stokes flow simulations of earth's mantle johann rudi1, hari sundar2, tobin isaac1, georg stadler3, michael gurnis4, and omar ghattas1;5 1institute for computational engineering and sciences (ices), the university of texas at austin, usa **adaptive stabilization of high-order measurement and control** - high-order nonlinear systems, time-varying delays, unknown state-dependent growth rates, adding a power integrator, adaptive stabilization introduction it is well known that global control design for nonlinear systems is one of the most important topics in nonlinear control theory and it has drawn increasing attention during past **adaptive high-order finite-difference method for nonlinear ...** - adaptive high-order finite-difference method for nonlinear wave problems i. fatkullin1 and j. s. hesthaven2 received february 14, 2001; accepted (in revised form) april 22, 2001 we discuss a scheme for the numerical solution of one-dimensional initial value problems exhibiting strongly localized solutions or finite-time singularities. to

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