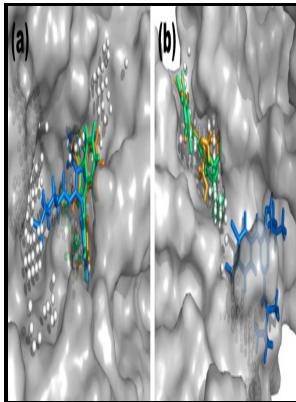


Time-accurate multiple-grid algorithm

AIAA - Analysis of multigrid methods for general systems of PDE



Description: -

- Multigrid algorithm
- time-accurate multiple-grid algorithm
- time-accurate multiple-grid algorithm

Notes: Bibliographical references: p.62.
This edition was published in 1985



Filesize: 11.42 MB

Tags: #Monotonicity #preserving #multigrid #time #stepping #schemes #for #conservation #laws

Monotonicity preserving multigrid time stepping schemes for conservation laws

Semicoarsening multigrid on a hypercube. Work reduction factors as large as eight, in comparison to the basic fine-grid algorithm, have been obtained. A time-accurate multiple-grid algorithm A time-accurate multiple-grid algorithm is described.

AMS :: Mathematics of Computation

Society of Petroleum Engineers SPE , Inc. An Introduction to Multigrid Methods.

Multiple

Numerical results are given to verify the theoretical results and demonstrate the effectiveness of the proposed schemes. Computational results are presented for subsonic and transonic inviscid flows and for laminar and turbulent, attached and separated, subsonic viscous flows.

A time

The formulation is implemented, comprehensively, using Finite Element Methods and programming in FORTRAN 90. In this paper we show that the multigrid method has the effect of increasing the time-step for the smooth part of the solution leading back to an increase of the convergence rate.

A time

Multigrid with matrix-dependent transfer operators for a singular perturbation problem. Schultz, GMRES: A generalized minimal residual algorithm for solving nonsymmetric linear systems, SIAM J. Each refinement can be seen as a finer grid in a multiple-grid system

Multiple Grid and Multiple Time

Two-grid solution of shock problems. Multi-level adaptive solutions to boundary-value problems. The multiple grid method compares very well to the single-grid simulation.

Related Books

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