

DOWNLOAD PDF

-1-

A Two Colorable Fourth Order Compact Difference Scheme and Parallel Iterative Solution of the 3D Convection Diffusion Equation

By Jun Zhang

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.A new fourth order compact difference scheme for the three dimensional convection diffusion equation with variable coefficients is presented. The novelty of this new difference scheme is that it Only requires 15 grid points and that it can be decoupled with two colors. The entire computational grid can be updated in two parallel subsweeps with the Gauss-Seidel type iterative method. This is compared with the known 19 point fourth order compact differenCe scheme which requires four colors to decouple the computational grid. Numerical results, with multigrid methods implemented on a shared memory parallel computer, are presented to compare the 15 point and the 19 point fourth order compact schemes. This item ships from La Vergne,TN. Paperback.



Reviews

These types of pdf is the greatest pdf accessible. It is among the most amazing ebook we have go through. You will not feel monotony at anytime of your time (that's what catalogues are for relating to should you request me). -- Cecil Rempel

It is simple in study easier to fully grasp. It is definitely basic but unexpected situations within the fifty percent in the ebook. I am delighted to let you know that this is actually the finest publication i have got read inside my own life and could be he very best ebook for actually.

-- Destiny Walsh