

Heidelberger Abhandlungen Zur Mittleren Und Neueren Geschichte (21)



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(Prof. Martine Lesch)

HEIDELBERGER ABHANDLUNGEN ZUR MITTLEREN UND NEUEREN GESCHICHTE (21)



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 62 pages. OCLC Number: ocm34613050 Excerpt: . . . the error of the algorithms in both space and time. The mesh sizes that are used are for mesh refinements by successive halving of the grid size. Table A: Data From The Four Algorithms For The 1D LEE $u(x, 0) = 0$ and $V(x, 0) = \sin(\pi x)$, $A = 0.8$, $M = 0$ Maximum Error in u or p at $t = 10^{-2}$ Or 2^{-2} Or 4^{-2} Or 6^{-2} Or 8^{-2} Or 10^{-2} 1. 035D-0 7. 885D-01 4. 253D-01 2. 078D-01 8 50 6. 760D-01 9. 141D-02 1. 110D-02 1. 387D-03 16 100 2. 586D-01 7. 122D-03 2. 158D-04 7. 000D-06 32 200 7. 133D-02 4. 644D-04 3. 551D-06 2. 910D-08 64 400 1. 811D-02 2. 932D-05 5. 620D-08 1. 157D-10 128 800 4. 539D-03 1. 837D-06 8. 808D-10 3. 438D-13 256 1600 1. 135D-03 1. 149D-07 1. 283D-11 9. 484D-13 512 3200 2. 839D-04 7. 182D-09 6. 303D-13 1024 6400 7. 097D-05 4. 527D-10 3. 776D-12 The orders of accuracy of the algorithms can be verified by calculating the factor by which the error decreases with the grid resolution. The data from the method with Or 2 at grid sizes 2 512 and 1024 gives, $1 \log 2.839 \times 10^{-4.5} \log 2 7.097 \times 10^{-2.00}$, so that the error decreases by a factor of 22.00 when the mesh size is halved, and the method as implemented actually is second order in both space and time. For the method with Or-6, the error decrease from --128 to 256 is by a factor of 2 1, but the decrease from 2h--256 to- 512 is only by...



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