



Hypercube Algorithms and Implementations: February 1986 (Classic Reprint) (Paperback)

By Oliver A McBryan

Forgotten Books, 2018. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Hypercube Algorithms and Implementations: February 1986 The hyperbolic equations are the easiest to parallelize, and in fact we have parallelized various hyperbolic solvers by adding as little as one line of code to the corresponding serial code see section below. We have used several parallelization strategies for hyperbolic equations and we compare these from the point of view of computational efficiency. The simplest method is not the most efficient. However it is quite sufficient as computation already substantially dominates communication costs even for this method. From a software point of view we prefer the simpler approach trading a small amount of efficiency for a large decrease in software complexity. Furthermore we have used the same parallelization strategy, which we call Transpose Splitting Parallelization, for various other applications, including an fft-based fast Poisson solver see sections 8 and 14. The basic observation underlying this approach is that an efficient parallel matrix transpose can be used to parallelize a numerical algorithm of adior operator splitting type. About the Publisher Forgotten Books publishes hundreds of thousands of rare and...



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