



Parallel Scientific Computation: A Structured Approach using BSP and MPI (Hardback)

By Rob H. Bisseling

Oxford University Press, United Kingdom, 2004. Hardback. Condition: New. Language: English . Brand New Book. This is the first text explaining how to use the bulk synchronous parallel (BSP) model and the freely available BSPLib communication library in parallel algorithm design and parallel programming. Aimed at graduate students and researchers in mathematics, physics and computer science, the main topics treated in the book are core topics in the area of scientific computation and many additional topics are treated in numerous exercises. An appendix on the message-passing interface (MPI) discusses how to program using the MPI communication library. MPI equivalents of all the programs are also presented. The main topics treated in the book are core in the area of scientific computation: solving dense linear systems by Gaussian elimination, computing fast Fourier transforms, and solving sparse linear systems by iterative methods. Each topic is treated in depth, starting from the problem formulation and a sequential algorithm, through a parallel algorithm and its analysis, to a complete parallel program written in C and BSPLib, and experimental results obtained using this program on a parallel computer. Additional topics treated in the exercises include: data compression, random number generation, cryptography, eigensystem solving, 3D and...

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