

S. LAKSHMIVARAHAN
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**ANALYSIS AND DESIGN
OF PARALLEL ALGORITHMS:
ARITHMETIC AND MATRIX PROBLEMS**

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Analysis And Design Of Parallel Algorithms Arithmetic And Matrix Problems

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constraints gives the reader a good idea of how the FSM can be implemented in a real world situation *New Parallel Algorithms for Direct Solution of Linear Equations* C. Siva Ram Murthy, K. N. Balasubramanya Murthy, Srinivas Aluru, 2000-10-30 Rather than parallelizing sequential algorithms the authors develop new back substitution free parallel algorithms using a bidirectional elimination technique for the solution of both dense and sparse linear equations They provide full coverage of bidirectional parallel algorithms based on Gaussian elimination LU factorization Householder reductions and modified Gram Schmidt orthogonalization Givens rotations sparse Cholesky factorization and sparse factorization clearly demonstrating how the bidirectional approach allows for improved speedup numerical stability and efficient implementation on multiprocessor systems Plus the book offers a useful survey of the vast literature on direct methods introductory material on solving systems of linear equations and exercises It is an invaluable resource for computer scientists researchers in parallel linear algebra and anyone with an interest in parallel programming **BOOK JACKET**

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Computing Parallelism *The Fourth International Conference/Exhibition on High-Performance Computing in the Asia-Pacific Region, Beijing, China, May 14-17, 2000* ,2000 *Whitaker's Book List* ,1991 *The Parallelization and Enhancement of a Parabolized Navier-Stokes Solver* Jane Macari Pallis,1996 Summary of Awards National Science Foundation (U.S.). Computer Science Section,1988 The Architecture of Symbolic Computers Peter M. Kogge,1991
Focuses on the design and implementation of two classes of non von Neumann computer architecture those designed for functional and logical language computing

This book delves into Analysis And Design Of Parallel Algorithms Arithmetic And Matrix Problems. Analysis And Design Of Parallel Algorithms Arithmetic And Matrix Problems is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Analysis And Design Of Parallel Algorithms Arithmetic And Matrix Problems, encompassing both the fundamentals and more intricate discussions.

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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Analysis And Design Of Parallel Algorithms Arithmetic And Matrix Problems.

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