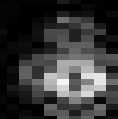




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Recent Developments in Domain Decomposition Methods



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Recent Developments In Domain Decomposition Methods

**Thomas Dickopf, Martin J.
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Widlund, David E. Keyes, 2007-01-19 Domain decomposition is an active research area concerned with the development, analysis and implementation of coupling and decoupling strategies in mathematical and computational models of natural and engineered systems. The present volume sets forth new contributions in areas of numerical analysis, computer science, scientific and industrial applications and software development. **Domain Decomposition Methods - Algorithms and**

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Fourth International Symposium on Domain Decomposition Methods for Partial Differential Equations R.

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The success of spectral methods in practical computations has led to an increasing interest in their theoretical aspects especially since the mid 1970s Although the theory does not yet cover the complete spectrum of applications the analytical techniques which have been developed in recent years have facilitated the examination of an increasing number of problems of practical interest In this book we present a unified theory of the mathematical analysis of spectral methods and apply it to many of the algorithms in current use

Finite Difference Computing with Exponential Decay Models Hans Petter Langtangen, 2016-06-10 This text provides a very simple initial introduction to the complete scientific computing pipeline models discretization algorithms programming verification and visualization The pedagogical strategy is to use one case study an ordinary differential equation describing exponential decay processes to illustrate fundamental concepts in mathematics and computer science The book is easy to read and only requires a command of one variable calculus and some very basic knowledge about computer programming Contrary to similar texts on numerical methods and programming this text has a much stronger focus on implementation and teaches testing and software engineering in particular

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