

# **An Introduction to Domain Decomposition Methods**

# Domain Decomposition Methods

**Susanne C. Brenner, Eric Chung, Axel  
Klawonn, Felix Kwok, Jinchao Xu, Jun  
Zou**



## **Domain Decomposition Methods:**

**Domain Decomposition Methods - Algorithms and Theory** Andrea Toselli, Olof Widlund, 2006-06-20 This book offers a comprehensive presentation of some of the most successful and popular domain decomposition preconditioners for finite and spectral element approximations of partial differential equations It places strong emphasis on both algorithmic and mathematical aspects It covers in detail important methods such as FETI and balancing Neumann Neumann methods and algorithms for spectral element methods

**Domain Decomposition** Barry Smith, Petter Bjørstad, William Gropp, 2004-03-25 Presents an easy to read discussion of domain decomposition algorithms their implementation and analysis Ideal for graduate students about to embark on a career in computational science It will also be a valuable resource for all those interested in parallel computing and numerical computational methods

**Domain Decomposition Methods for the Numerical Solution of Partial Differential Equations** Tarek Mathew, 2008-06-25 Domain decomposition methods are divide and conquer computational methods for the parallel solution of partial differential equations of elliptic or parabolic type The methodology includes iterative algorithms and techniques for non matching grid discretizations and heterogeneous approximations This book serves as a matrix oriented introduction to domain decomposition methodology A wide range of topics are discussed include hybrid formulations Schwarz and many more

*An Introduction to Domain Decomposition Methods* Victorita Dolean, Pierre Jolivet, Frederic Nataf, 2015-12-08 The purpose of this book is to offer an overview of the most popular domain decomposition methods for partial differential equations PDEs These methods are widely used for numerical simulations in solid mechanics electromagnetism flow in porous media etc on parallel machines from tens to hundreds of thousands of cores The appealing feature of domain decomposition methods is that contrary to direct methods they are naturally parallel The authors focus on parallel linear solvers The authors present all popular algorithms both at the PDE level and at the discrete level in terms of matrices along with systematic scripts for sequential implementation in a free open source finite element package as well as some parallel scripts Also included is a new coarse space construction two level method that adapts to highly heterogeneous problems

*Domain Decomposition Methods in Science and Engineering* Ralf Kornhuber, Ronald W. Hoppe, Jacques Periaux, Olivier Pironneau, Olof Widlund, Jinchao Xu, 2006-03-30 Domain decomposition is an active interdisciplinary research area that is devoted to the development analysis and implementation of coupling and decoupling strategies in mathematics computational science engineering and industry A series of international conferences starting in 1987 set the stage for the presentation of many meanwhile classical results on substructuring block iterative methods parallel and distributed high performance computing etc This volume contains a selection from the papers presented at the 15th International Domain Decomposition Conference held in Berlin Germany July 17 25 2003 by the world's leading experts in the field Its special focus has been on numerical analysis computational issues complex heterogeneous problems industrial problems and software development

**Domain Decomposition Methods in Science and**

**Engineering XXIV** Petter E. Bjørstad, Susanne C. Brenner, Lawrence Halpern, Hyea Hyun Kim, Ralf Kornhuber, Talal Rahman, Olof B. Widlund, 2019-01-05 These are the proceedings of the 24th International Conference on Domain Decomposition Methods in Science and Engineering which was held in Svalbard Norway in February 2017 Domain decomposition methods are iterative methods for solving the often very large systems of equations that arise when engineering problems are discretized frequently using finite elements or other modern techniques These methods are specifically designed to make effective use of massively parallel high performance computing systems The book presents both theoretical and computational advances in this domain reflecting the state of art in 2017 Domain Decomposition Methods in Science and Engineering XVI Olof Widlund, David E. Keyes, 2007-07-30 Domain decomposition is an active interdisciplinary research area concerned with the development analysis and implementation of coupling and decoupling strategies in mathematical and computational models of natural and engineered systems Since the advent of hierarchical distributed memory computers it has been motivated by considerations of concurrency and locality in a wide variety of large scale problems continuous and discrete Historically it emerged from the analysis of partial differential equations beginning with the work of Schwarz in 1870 The present volume sets forth new contributions in areas of numerical analysis computer science scientific and industrial applications and software development **Third International Symposium on Domain Decomposition Methods for Partial Differential Equations** Tony F. Chan, 1990-01-01 *Recent Developments in Domain Decomposition Methods* Luca F. Pavarino, Andrea Toselli, 2012-12-06 The main goal of this book is to provide an overview of some of the most recent developments in the field of Domain Decomposition Methods Domain decomposition relates to the construction of preconditioners for the large algebraic systems of equations which often arise in applications by solving smaller instances of the same problem It also relates to the construction of approximation methods built from different discretizations in different subdomains The resulting methods are among the most successful parallel solvers for many large scale problems in computational science and engineering The papers in this collection reflect some of the most active research areas in domain decomposition such as novel FETI Neumann Neumann overlapping Schwarz and Mortar methods **Domain Decomposition Methods in Science and Engineering XXVI** Susanne C. Brenner, Eric Chung, Axel Klawonn, Felix Kwok, Jinchao Xu, Jun Zou, 2023-03-15 These are the proceedings of the 26th International Conference on Domain Decomposition Methods in Science and Engineering which was hosted by the Chinese University of Hong Kong and held online in December 2020 Domain decomposition methods are iterative methods for solving the often very large systems of equations that arise when engineering problems are discretized frequently using finite elements or other modern techniques These methods are specifically designed to make effective use of massively parallel high performance computing systems The book presents both theoretical and computational advances in this domain reflecting the state of art in 2020 *Domain Decomposition Methods in Science and Engineering XXI* Jocelyne Erhel, Martin J. Gander, Laurence

Halpern, Géraldine Pichot, Taoufik Sassi, Olof Widlund, 2014-10-10 This volume contains a selection of papers presented at the 21st international conference on domain decomposition methods in science and engineering held in Rennes France June 25 29 2012 Domain decomposition is an active and interdisciplinary research discipline focusing on the development analysis and implementation of numerical methods for massively parallel computers Domain decomposition methods are among the most efficient solvers for large scale applications in science and engineering They are based on a solid theoretical foundation and shown to be scalable for many important applications Domain decomposition techniques can also naturally take into account multiscale phenomena This book contains the most recent results in this important field of research both mathematically and algorithmically and allows the reader to get an overview of this exciting branch of numerical analysis and scientific computing

**Domain Decomposition Methods in Science and Engineering XXV** Ronald Haynes, Scott

MacLachlan, Xiao-Chuan Cai, Laurence Halpern, Hyea Hyun Kim, Axel Klawonn, Olof Widlund, 2020-10-24 These are the proceedings of the 25th International Conference on Domain Decomposition Methods in Science and Engineering which was held in St John s Newfoundland Canada in July 2018 Domain decomposition methods are iterative methods for solving the often very large systems of equations that arise when engineering problems are discretized frequently using finite elements or other modern techniques These methods are specifically designed to make effective use of massively parallel high performance computing systems The book presents both theoretical and computational advances in this domain reflecting the state of art in 2018

**Domain in Decomposition Methods in Optimal Control of Partial Differential Equations**

John E. Lagnese, Günter Leugering, 2004-09-27 While domain decomposition methods have a long history dating back well over one hundred years it is only during the last decade that they have become a major tool in numerical analysis of partial differential equations This monograph emphasizes domain decomposition methods in the context of so called virtual optimal control problems and treats optimal control problems for partial differential equations and their decompositions using an all at once approach

Domain Decomposition Methods for Nonconforming Finite Element Discretizations Jinsheng Gu, 1999

Domain decomposition refers to numerical methods for obtaining solutions of scientific and engineering problems by combining solutions to problems posed on physical subdomains or more generally by combining solutions to appropriately constructed subproblems It has been a subject of intense interest recently because of its suitability for implementation on high performance computer architectures It is well known that the nonconforming finite elements are widely used in and effective for the solving of partial differential equations derived from mechanics and engineering because they have fewer degrees of freedom simpler basis functions and better convergence behavior But there has been no extensive study of domain decomposition methods with nonconforming finite elements which lack the global continuity Therefore a rather systematic investigation on domain decomposition methods with nonconforming elements is of great significance and this is what the present book achieves The theoretical breakthrough is the establishment of a series of essential estimates especially

the extension theorems for nonconforming elements which play key roles in domain decomposition analysis There are also many originalities in the design of the domain decomposition algorithms for the nonconforming finite element discretizations according to the features of the nonconforming elements The existing domain decomposition methods developed in the conforming finite element discrete case can be revised properly and extended to the nonconforming finite element discrete case correspondingly These algorithms nonoverlap or overlap are as efficient as their counterparts in the conforming cases and even easier in implementation

**Stability Estimates for Hybrid Coupled Domain Decomposition Methods** Olaf Steinbach, 2003-03-10 Domain decomposition methods are a well established tool for an efficient numerical solution of partial differential equations in particular for the coupling of different model equations and of different discretization methods Based on the approximate solution of local boundary value problems either by finite or boundary element methods the global problem is reduced to an operator equation on the skeleton of the domain decomposition Different variational formulations then lead to hybrid domain decomposition methods

First International Symposium on Domain Decomposition Methods for Partial Differential Equations R. Glowinski, 1988

**Domain Decomposition Methods in Science and Engineering** Alfio Quarteroni, 1994 This book contains the proceedings of the Sixth International Conference on Domain Decomposition held in June 1992 in Como Italy Much of the work in this field focuses on developing numerical methods for large algebraic systems

**Domain Decomposition Methods for the Numerical Solution of Partial Differential Equations** Tarek Mathew, 2009-08-29 Domain decomposition methods are divide and conquer computational methods for the parallel solution of partial differential equations of elliptic or parabolic type The methodology includes iterative algorithms and techniques for non matching grid discretizations and heterogeneous approximations This book serves as a matrix oriented introduction to domain decomposition methodology A wide range of topics are discussed include hybrid formulations Schwarz and many more

Domain Decomposition Methods in Science and Engineering XVIII Michel Bercovier, Martin Gander, Ralf Kornhuber, Olof Widlund, 2009-09-01 This volume contains a selection of 41 refereed papers presented at the 18 International Conference of Domain Decomposition Methods hosted by the School of Computer Science and Engineering CSE of the Hebrew University of Jerusalem Israel January 12-17 2008 1 Background of the Conference Series The International Conference on Domain Decomposition Methods has been held in twelve countries throughout Asia Europe the Middle East and North America beginning in Paris in 1987 Originally held annually it is now spaced at roughly 18 month intervals A complete list of past meetings appears below The principal technical content of the conference has always been mathematical but the principal motivation has been to make efficient use of distributed memory computers for complex applications arising in science and engineering The leading 15 such computers at the petascale characterized by 10 oating point operations per second of processing power and as many Bytes of application addressable memory now marshal more than 200 000 independent processor cores and systems with many millions of cores are expected soon There is essentially no

alternative to main decomposition as a stratagem for parallelization at such scales Contributions from mathematicians computerscientists engineers and scientists are together necessary in addressing the challenge of scale and all are important to this conference

**Domain Decomposition Methods in Science and Engineering XVII** Ulrich Langer,Marco Discacciati,David E. Keyes,Olof Widlund,Walter Zulehner,2008-01-02 Domain decomposition is an active interdisciplinary research field concerned with the development analysis and implementation of coupling and decoupling strategies in mathematical and computational models This volume contains selected papers presented at the 17th International Conference on Domain Decomposition Methods in Science and Engineering It presents the newest domain decomposition techniques and examines their use in the modeling and simulation of complex problems

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