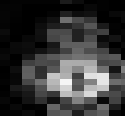




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Recent Developments in Domain Decomposition Methods



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Recent Developments In Domain Decomposition Methods

Hans Petter Langtangen



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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 Methods in Science and Engineering XVI Olof B. 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.

Recent Developments in Discontinuous Galerkin Finite Element Methods for Partial Differential Equations Xiaobing Feng, Ohannes Karakashian, Yulong Xing, 2013-11-08 The field of discontinuous Galerkin finite element methods has attracted considerable recent attention from scholars in the applied sciences and engineering. This volume brings together scholars working in this area, each representing a particular theme or direction of current research. Derived from the 2012 Barrett Lectures at the University of Tennessee, the papers reflect the state of the field today and point toward possibilities for future inquiry. The longer survey lectures delivered by Franco Brezzi and Chi Wang Shu respectively focus on theoretical aspects of discontinuous Galerkin methods for elliptic and evolution problems. Other papers apply DG methods to cases involving radiative transport equations, error estimates and time discrete higher order ALE functions among other areas. Combining focused case studies with longer sections of expository discussion, this book will be an indispensable reference for researchers and students working with discontinuous Galerkin finite element methods and its applications.

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 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 *Domain Decomposition Methods in Science and Engineering XXII* Thomas Dickopf, Martin J. Gander, Laurence Halpern, Rolf Krause, Luca F. Pavarino, 2016-03-11 These are the proceedings of the 22nd International Conference on Domain Decomposition Methods which was held in Lugano Switzerland With 172 participants from over 24 countries this conference continued a long standing tradition of internationally oriented meetings on Domain Decomposition Methods The book features a well balanced mix of established and new topics such as the manifold theory of Schwarz Methods Isogeometric Analysis Discontinuous Galerkin Methods exploitation of modern HPC architectures and industrial applications As the conference program reflects the growing capabilities in terms of theory and available hardware allow increasingly complex non linear and multi physics simulations confirming the tremendous potential and flexibility of the domain decomposition concept **Fourth International Symposium on Domain Decomposition Methods for Partial Differential Equations** R. Glowinski, 1991-01-01 Focuses on the notion that by breaking the domain of the original problem into subdomains such an approach can if properly implemented lead to a considerable speedup The methods are particularly well suited for parallel computers Recent Developments in Domain Decomposition Methods and Flow Problems H. Fujita, H. Koshigoe, M. Mori, M. Nakamura, T. Nishida, T. Ushijima, 1998-08 Domain Decomposition Methods in Science and Engineering XIX Yunqing Huang, Ralf Kornhuber, Olof Widlund, Jinchao Xu, 2010-10-27 These are the proceedings of the 19th international conference on domain decomposition methods in science and engineering Domain decomposition methods are iterative methods for solving the often very large linear or nonlinear systems of algebraic equations that arise in various problems in mathematics computational science engineering and industry They are designed for massively parallel computers and take the memory hierarchy of such systems into account This is essential for approaching peak floating point performance There is an increasingly well developed theory which is having a direct impact on the development and improvement of these algorithms *Domain Decomposition Methods in Optimal Control of Partial Differential Equations* John E. Lagnese, Günter

Leugering,2012-12-06 This monograph considers problems of optimal control for partial differential equations of elliptic and more importantly of hyperbolic types on networked domains The main goal is to describe develop and analyze iterative space and time domain decompositions of such problems on the infinite dimensional level 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 A keyword in this context is parallelism This development is perhaps best illustrated by the fact that we just encountered the 15th annual conference precisely on this topic Without attempting to provide a complete list of introductory references let us just mention the monograph by Quarteroni and Valli 91 as a general up to date reference on domain decomposition methods for partial differential equations The emphasis of this monograph is to put domain decomposition methods in the context of so called virtual optimal control problems and more importantly to treat optimal control problems for partial differential equations and their decompositions by an all at once approach This means that we are mainly interested in decomposition techniques which can be interpreted as virtual optimal control problems and which together with the real control problem coming from an underlying application lead to a sequence of individual optimal control problems on the subdomains that are iteratively decoupled across the interfaces

Spectral Methods in Fluid Dynamics Claudio Canuto,M.Yousuff Hussaini,Alfio Quarteroni,Thomas A., Jr. Zang,2012-12-06 This is a book about spectral methods for partial differential equations when to use them how to implement them and what can be learned from their of spectral methods has evolved rigorous theory The computational side vigorously since the early 1970s especially in computationally intensive of the more spectacular applications are applications in fluid dynamics Some of the power of these discussed here first in general terms as examples of the methods have been methods and later in great detail after the specifics covered This book pays special attention to those algorithmic details which are essential to successful implementation of spectral methods The focus is on algorithms for fluid dynamical problems in transition turbulence and aerodynamics This book does not address specific applications in meteorology partly because of the lack of experience of the authors in this field and partly because of the coverage provided by Haltiner and Williams 1980 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 PDEs Hans Petter Langtangen,Svein Linge,2017-06-21 This book is open access under a CC BY 4.0 license This easy to read book introduces the basics of solving partial differential equations by means of finite difference methods Unlike many of the traditional academic works on the topic this book was written for practitioners Accordingly it especially addresses the construction of finite difference schemes formulation and

implementation of algorithms verification of implementations analyses of physical behavior as implied by the numerical solutions and how to apply the methods and software to solve problems in the fields of physics and biology

Programming for Computations - Python Svein Linge,Hans Petter Langtangen,2019-10-30 This book is published open access under a CC BY 4.0 license This book presents computer programming as a key method for solving mathematical problems This second edition of the well received book has been extensively revised All code is now written in Python version 3.6 no longer version 2.7 In addition the two first chapters of the previous edition have been extended and split up into five new chapters thus expanding the introduction to programming from 50 to 150 pages Throughout the book the explanations provided are now more detailed previous examples have been modified and new sections examples and exercises have been added Also a number of small errors have been corrected The book was inspired by the Springer book TCSE 6 A Primer on Scientific Programming with Python by Langtangen but the style employed is more accessible and concise in keeping with the needs of engineering students The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows students to write simple programs for solving common mathematical problems with numerical methods in the context of engineering and science courses The emphasis is on generic algorithms clean program design the use of functions and automatic tests for verification

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

A Primer on Scientific Programming with Python Hans Petter Langtangen,2016-07-28 The book serves as a first introduction to computer programming of scientific applications using the high level Python language The exposition is example and problem oriented where the applications are taken from mathematics numerical calculus statistics physics biology and finance The book teaches Matlab style and procedural programming as well as object oriented programming High school mathematics is a required background and it is advantageous to study classical and numerical one variable calculus in parallel with reading this book Besides learning how to program computers the reader will also learn how to solve mathematical problems arising in various branches of science and engineering with the aid of numerical methods and programming By blending programming mathematics and scientific applications the book lays a solid foundation for practicing computational science From the reviews Langtangen does an excellent job of introducing programming as a set of skills in problem solving He guides the reader into thinking properly about producing program logic and data structures for

modeling real world problems using objects and functions and embracing the object oriented paradigm Summing Up Highly recommended F H Wild III Choice Vol 47 8 April 2010 Those of us who have learned scientific programming in Python on the streets could be a little jealous of students who have the opportunity to take a course out of Langtangen s Primer John D Cook The Mathematical Association of America September 2011 This book goes through Python in particular and programming in general via tasks that scientists will likely perform It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science Alex Small IEEE CiSE Vol 14 2 March April 2012 This fourth edition is a wonderful inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python Joan Horvath Computing Reviews March 2015 Computer Graphics through Key Mathematics Huw Jones,2001-04-27 This book introduces the mathematical concepts that underpin computer graphics It is written in an approachable way without burdening readers with the skills of how to do things The author discusses those aspects of mathematics that relate to the computer synthesis of images and so gives users a better understanding of the limitations of computer graphics systems Users of computer graphics who have no formal training and wish to understand the essential foundations of computer graphics systems will find this book very useful as will mathematicians who want to understand how their subject is used in computer image synthesis **Modeling and Computations in Electromagnetics** Habib Ammari,2008-01-12 This is nothing less than an essential text in what is a new and growing discipline Electromagnetic modeling and computations is expanding as a result of the steadily increasing demand for designing electrical devices modeling electromagnetic materials and simulating electromagnetic fields in nanoscale structures The aim of this volume is to bring together prominent worldwide experts to review state of the art developments and future trends of modeling and computations in electromagnetics Computational Fluid Dynamics for Sport Simulation Martin Peters,2009-11-26 All over the world sport plays a prominent role in society as a leisure activity for many as an ingredient of culture as a business and as a matter of national prestige in such major events as the World Cup in soccer or the Olympic Games Hence it is not surprising that science has entered the realm of sports and in particular that computer simulation has become highly relevant in recent years This is explored in this book by choosing five different sports as examples demonstrating that computational science and engineering CSE can make essential contributions to research on sports topics on both the fundamental level and eventually by supporting athletes performance **Numerical Mathematics and Advanced Applications ENUMATH 2017** Florin Adrian Radu,Kundan Kumar,Inga Berre,Jan Martin Nordbotten,Iuliu Sorin Pop,2019-01-05 This book collects many of the presented papers as plenary presentations mini symposia invited presentations or contributed talks from the European Conference on Numerical Mathematics and Advanced Applications ENUMATH 2017 The conference was organized by the University of Bergen Norway from September 25 to 29 2017 Leading

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