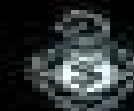


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Michael Griebel, Marc Alexander Schweitzer, 2015-01-29 Meshfree methods are a modern alternative to classical mesh based discretization techniques such as finite differences or finite element methods Especially in a time dependent setting or in the treatment of problems with strongly singular solutions their independence of a mesh makes these methods highly attractive This volume collects selected papers presented at the Sixth International Workshop on Meshfree Methods held in Bonn Germany in October 2011 They address various aspects of this very active research field and cover topics from applied mathematics physics and engineering **Meshfree Methods for Partial Differential Equations** Michael Griebel, Marc A. Schweitzer, 2002-09-18 Meshfree methods for the solution of partial differential equations gained much attention in recent years not only in the engineering but also in the mathematics community One of the reasons for this development is the fact that meshfree discretizations and particle models are often better suited to cope with geometric changes of the domain of interest e g free surfaces and large deformations than classical discretization techniques such as finite differences finite elements or finite volumes Another obvious advantage of meshfree discretizations is their independence of a mesh so that the costs of mesh generation are eliminated Also the treatment of time dependent PDEs from a Lagrangian point of view and the coupling of particle models and continuous models gained enormous interest in recent years from a theoretical as well as

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Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2018 Spencer J. Sherwin, David Moxey, Joaquim Peiró, Peter E. Vincent, Christoph Schwab, 2020-08-11 This open access book features a selection of high quality papers from the presentations at the International Conference on Spectral and High Order Methods 2018 offering an overview of the depth and breadth of the activities within this important research area The carefully reviewed papers provide a snapshot of the state of the art while the extensive bibliography helps initiate new research directions A Parallel Multilevel Partition of Unity Method for Elliptic Partial Differential Equations Marc Alexander Schweitzer, 2012-12-06 the solution or its gradient These new discretization techniques are promising approaches to overcome the severe problem of mesh generation Furthermore the easy coupling of meshfree discretizations of continuous phenomena to discrete particle models and the straightforward Lagrangian treatment of PDEs via these techniques make them very interesting from a

practical as well as a theoretical point of view Generally speaking there are two different types of meshfree approaches first the classical particle methods [104, 105, 107, 108] and second meshfree discretizations based on data fitting techniques [13, 39] Traditional particle methods stem from physics applications like Boltzmann equations [3, 50] and are also of great interest in the mathematical modeling community since many applications nowadays require the use of molecular and atomistic models for instance in semiconductor design Note however that these methods are Lagrangian methods i.e. they are based on a time dependent formulation or conservation law and can be applied only within this context In a particle method we use a discrete set of points to discretize the domain of interest and the solution at a certain time The PDE is then transformed into equations of motion for the discrete particles such that the particles can be moved via these equations After time discretization of the equations of motion we obtain a certain particle distribution for every time step

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

Advances in Meshfree and X-fem Methods Gui-Rong Liu, 2003 This book contains 36 articles covering most of the topics in the rapidly developing areas of meshfree methods and extended finite element methods X FEM These topics include domain discretization boundary discretization combined domain boundary discretization meshfree particle methods collocation methods X FEM etc Papers on issues related to implementation and coding of meshfree methods are also presented The areas of applications of meshfree methods include solving general partial differential equations the mechanics of solids and structures smart material structures soil structures fracture mechanics fluid dynamics impact penetration micro fluidics etc In addition techniques for field variable interpolation such as the moving least squares MLS approximation the point interpolation method PIM and radial PIM are reported Contents Meshfree Shape Functions for Weak Formulation Strong Formulation Meshfree Methods for Smart Materials Structures Meshfree Methods for Fracture Analysis Meshfree Methods for Membranes Plates Meshfree Methods for Soil Meshfree Methods for CFD Boundary Meshfree Methods Coding Error Estimation Parallelisation Meshfree Particle Methods X FEM Readership Graduate and undergraduate students researchers academics lecturers and engineers in civil engineering engineering mechanics and mechanical engineering

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Numerical Linear Algebra and Matrix Factorizations Tom Lyche, 2020-03-02 After reading this book students should be able to analyze computational problems in linear algebra such as linear systems least squares and eigenvalue problems and to develop their own algorithms for solving them Since these

problems can be large and difficult to handle much can be gained by understanding and taking advantage of special structures This in turn requires a good grasp of basic numerical linear algebra and matrix factorizations Factoring a matrix into a product of simpler matrices is a crucial tool in numerical linear algebra because it allows us to tackle complex problems by solving a sequence of easier ones The main characteristics of this book are as follows It is self contained only assuming that readers have completed first year calculus and an introductory course on linear algebra and that they have some experience with solving mathematical problems on a computer The book provides detailed proofs of virtually all results Further its respective parts can be used independently making it suitable for self study The book consists of 15 chapters divided into five thematically oriented parts The chapters are designed for a one week per chapter one semester course To facilitate self study an introductory chapter includes a brief review of linear algebra

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