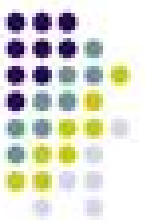


4. Numerische Lösung partieller Differentialgleichungen



Numerische Konzepte

- Direkte Verfahren: Direkte Verwendung der PDE zur Lösung des Problems; Ersetzen kontinuierlicher Ausdrücke durch diskrete Näherungen, z.B. Finite-Differenzen-Verfahren
- Projektionsverfahren: Umformulierung des Problems bzw. der PDE, um zu einer einfacheren Beschreibung zu kommen, z.B. Finite-Elemente-Verfahren

Adaptive L Sung Partieller Differentialgleichungen

Adaptive L Sung Partieller Differentialgleichungen

Marco Günther, Kai Velten



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Adaptive Wavelet Methods for Variational Formulations of Nonlinear Elliptic PDEs on Tensor-Product

Domains Roland Pabel, 2015-09-30 This thesis is concerned with the numerical solution of boundary value problems BVPs governed by nonlinear elliptic partial differential equations PDEs To iteratively solve such BVPs it is of primal importance to develop efficient schemes that guarantee convergence of the numerically approximated PDE solutions towards the exact solution The new adaptive wavelet theory guarantees convergence of adaptive schemes with fixed approximation rates Furthermore optimal i e linear complexity estimates of such adaptive solution methods have been established These achievements are possible since wavelets allow for a completely new perspective to attack BVPs namely to represent PDEs in their original infinite dimensional realm Wavelets in this context represent function bases with special analytical properties e g the wavelets considered herein are piecewise polynomials have compact support and norm equivalences between certain function spaces and the ℓ_2 sequence spaces of expansion coefficients exist This theoretical framework is implemented in the course of this thesis in a truly dimensionally unrestricted adaptive wavelet program code which allows one to harness the proven theoretical results for the first time when numerically solving the above mentioned BVPs Numerical studies of 2D and 3D PDEs and BVPs demonstrate the feasibility and performance of the developed schemes The BVPs are solved using an adaptive Uzawa algorithm which requires repeated solution of nonlinear PDE sub problems This thesis presents for the first time a numerically competitive implementation of a new theoretical paradigm to solve nonlinear elliptic PDEs in arbitrary space dimensions with a complete convergence and complexity theory **Multigrid Methods** Stephen F.

McCormick, 1987-12-01 A thoughtful consideration of the current level of development of multigrid methods this volume is a carefully edited collection of papers that addresses its topic on several levels The first three chapters orient the reader who is familiar with standard numerical techniques to multigrid methods first by discussing multigrid in the context of standard techniques second by detailing the mechanics of use of the method and third by applying the basic method to some current problems in fluid dynamics The fourth chapter provides a unified development complete with theory of algebraic multigrid AMG which is a linear equation solver based on multigrid principles The last chapter is an ambitious development of a very general theory of multigrid methods for variationally posed problems Included as an appendix is the latest edition of the Multigrid Bibliography an attempted compilation of all existing research publications on multigrid Eine algorithmisch

orientierte Einf hrung Peter Deuflhard, Andreas Hohmann, 2008-09-25 Keine ausf hrliche Beschreibung f r Eine algorithmisch orientierte Einf hrung verf gbar Adaptive Numerical Solution of PDEs Peter Deuflhard, Martin Weiser, 2012-08-31 This

book deals with the general topic Numerical solution of partial differential equations PDEs with a focus on adaptivity of discretizations in space and time By and large introductory textbooks like Numerical Analysis in Modern Scientific Computing by Deuflhard and Hohmann should suffice as a prerequisite The emphasis lies on elliptic and parabolic systems

Hyperbolic conservation laws are treated only on an elementary level excluding turbulence Numerical Analysis is clearly understood as part of Scientific Computing The focus is on the efficiency of algorithms i e speed reliability and robustness which directly leads to the concept of adaptivity in algorithms The theoretical derivation and analysis is kept as elementary as possible Nevertheless required somewhat more sophisticated mathematical theory is summarized in comprehensive form in an appendix Complex relations are explained by numerous figures and illustrating examples Non trivial problems from regenerative energy nanotechnology surgery and physiology are inserted The text will appeal to graduate students and researchers on the job in mathematics science and technology Conceptually it has been written as a textbook including exercises and a software list but at the same time it should be well suited for self study **Numerische Mathematik 3**

Peter Deuflhard, Martin Weiser, 2020-09-21 Das Lehrbuch behandelt adaptive Algorithmen f r die numerische L sung von elliptischen und parabolischen Gleichungen wobei der Schwerpunkt auf der algorithmischen Effizienz liegt und die notwendige Theorie so elementar wie m glich gehalten wird Die zweite Ausgabe wurde korrigiert und um eine constraints basierte Formulierung der Dirichlet Randbedingungen und einen Abschnitt ber spektrale verz gerte Korrekturmethode erweitert **Numerik partieller Differentialgleichungen** Christian Großmann, Hans-Görg Roos, 2013-03-09 Die Numerik partieller Differentialgleichungen wird hier in relativ weitem Umfang vorgef hrt es beginnt bei der Diskretisierung der urspr nglichen Gleichungen es werden Fragen der Konsistenz und Stabilit t behandelt und auch Fragen der zweckm igen L sung der entstehenden Gleichungen werden nicht wie sonst in vergleichbaren B chern verschiedentlich zur Seite geschoben Monatshefte f r Mathematik H Muthsam Wien **Mehrgittermethoden** Norbert Köckler, 2012-11-27 Um partielle Differenzialgleichungen numerisch zu behandeln m ssen riesige lineare oder nichtlineare Gleichungssysteme aufgestellt und gel st werden Das geschieht meistens mit iterativen Verfahren die keine berfl ssigen Operationen mit den vielen Nullen in der Koeffizientenmatrix ausf hren Zu den schnellsten und wichtigsten Verfahren dieser Klasse geh ren die Mehrgittermethoden die gro e aus kleinen Strukturen stufenweise aufbauen Es werden leicht verst ndlich und und mit vielen Beispielen die wichtigsten mathematischen und algorithmischen Eigenschaften behandelt Der Band beschr nkt sich auf Modellprobleme an denen die wichtigsten Verfahren und die Anwendung von Software erkl rt und pr sentiert werden und sollte so f r einen breiten technisch interessierten Leserkreis verst ndlich bleiben auch weil die Grundlagen ausf hrlich wiederholt werden *Mathematik für Physiker Band 2* Helmut Fischer, Helmut Kaul, 2014-08-20 Wie im ersten Band ihres Werkes stellen die Autoren die mathematischen Grundlagen der Physik in gut zug nglicher und ansprechender Form dar Das Buch eignet sich sowohl f r das Selbststudium als auch zur Begleitung von Vorlesungen [Approximation der Lösungen von Differentialgleichungen mit Wavelets und Einstellung der Parameter](#) Marco Schuchmann, 2019-10-08 Die Modellierung physikalisch technischer Fragestellungen f hrt oft zu numerischen Problemen insbesondere zur numerischen Behandlung von Differentialgleichungen Trotz des gewaltigen Fortschrittes auf dem Gebiet der Computertechnologie ist man hier auf

effiziente aber auch gerade auf robuste Verfahren angewiesen die man auch auf steife oder instabile Probleme anwenden kann In diesem Buch geht es um die Approximation von Lösungen von Differentialgleichungen mit Hilfe von Waveletbasen Dabei muss die Differentialgleichung nicht in expliziter Form gegeben sein und es werden auch Differentialgleichungen höherer Ordnung partielle Differentialgleichungen wie auch Parameteridentifikationsprobleme betrachtet Im ersten Teil des Buches werden Überlegungen zum Einstellen der Parameter angestellt auf deren Basis dann ein adaptiver Algorithmus zum Lösen von Differentialgleichungen konstruiert wird Dieser adaptive Algorithmus wurde im Rahmen eines Forschungsprojektes entwickelt Danach wird das Lösen diverser Differentialgleichungen mit dieser Methode beschrieben und es wird gezeigt dass bei einigen kritischen Testproblemen dieser adaptive Algorithmus stabiler als konventionelle Methoden ist die u.a. in der Mathematica Funktion NDSolve implementiert wurden Später wird aber auch auf die Approximation von Funktionen auf einem Kompaktum eingegangen wo es einen Zusammenhang zur Fourieranalyse gibt Mathematische Modellbildung und Simulation Marco Günther, Kai Velten, 2014-12-31 Diese für Studierende ebenso wie für Wissenschaftler Ingenieure und Praktiker geeignete Einführung in mathematische Modellbildung und Simulation setzt nur einfache Grundkenntnisse in Analysis und linearer Algebra voraus alle weiteren Konzepte werden im Buch entwickelt Die Leserinnen und Leser lernen anhand detailliert besprochener Beispiele aus unterschiedlichsten Bereichen Biologie Ökonomie Medizin Landwirtschaft Chemie Maschinenbau Elektrotechnik Prozesstechnik usw. sich kritisch mit mathematischen Modellen auseinanderzusetzen und anspruchsvolle mathematische Modelle selbst zu formulieren und zu implementieren Das Themenspektrum reicht von statistischen Modellen bis zur Mehrphasen Strömungsdynamik in 3D Für alle im Buch besprochenen Modellklassen wird kostenlose Open Source Software zur Verfügung gestellt Grundlage ist das eigens für dieses Buch entwickelte Betriebssystem Gm Linux Geisenheim Linux das ohne Installationsaufwand z.B. auch auf Windows Rechnern läuft Ein Referenzkartensystem zu Gm Linux mit einfachen Schritt für Schritt Anleitungen ermöglicht es auch komplexe statistische Berechnungen oder 3D Strömungssimulationen in kurzer Zeit zu realisieren Alle im Buch beschriebenen Verfahren beziehen sich auf Gm Linux 2.0 und die darin fixierten Versionen aller Anwendungsprogramme und sind daher unabhängig von Softwareaktualisierungen langfristig verwendbar

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