

Gerhard Opfer

Numerische Mathematik für Anfänger

Eine Einführung für Mathematiker, Ingenieure
und Informatiker

5. Auflage

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Numerische Mathematik

Markus Neher

A red circular graphic with a gradient, appearing as a semi-circle or a stylized arrow pointing to the right, located on the right side of the light blue bar.

Numerische Mathematik:

Numerische Mathematik Hans-Rudolf Schwarz, Norbert Köckler, 2009-05-22 Gegenstand und Ziel Numerische Mathematik befasst sich damit für mathematisch formulierte Probleme einen rechnerischen Lösungsweg zu finden. Rutishauser: Da die meisten Probleme der Natur Ingenieur und Wirtschaftswissenschaften vor ihrer rechnerischen Lösung mathematisch modelliert werden, entwickelt die numerische Mathematik für eine Vielzahl von Problemstellungen rechnerische Lösungswege, sogenannte Algorithmen (siehe Definition 1.1). Sie muss sich daher neben der Mathematik auch mit der Auswahl von Hard- und Software beschäftigen. Damit ist die numerische Mathematik Teil des Gebietes wissenschaftliches Rechnen / Scientific Computing, das Elemente der Mathematik, der Informatik und der Ingenieurwissenschaften umfasst. Immer leistungsfähigerer Rechner hat dazu geführt, dass heute Probleme, die Entwicklung aus Luft und Raumfahrt, Physik, Meteorologie, Biologie und vielen anderen Gebieten rechnerisch gelöst werden können, deren Lösung lange als unmöglich galt. Dabei gehen die Entwicklung von Algorithmen und Rechnern Hand in Hand. Ziel der Ausbildung in numerischer Mathematik ist deshalb auch die Erziehung zu algorithmischem Denken, d.h. zur Kreativität beim Entwurf von Rechnerlösungen für Anwendungsprobleme. Vom Problem zur Lösung: Folgende Schritte führen von einem Anwendungsproblem zu seiner numerischen Lösung: Modellierung. Ein Anwendungsproblem muss zunächst in die Form eines mathematischen Modells gegossen werden. Dies geschieht meistens auf der Grundlage idealisierter Annahmen. Es findet also schon die erste Annäherung statt, damit eine Lösung exakt analytisch oder angenähert numerisch möglich wird. Realisierung: Für das mathematische Modell muss eine Lösungsmethode gefunden werden. Ist diese numerisch, so kann in der Regel zwischen mehreren Verfahren gewählt werden. *Numerische Mathematik* Günther Hämmerlin, Karl-Heinz Hoffmann, 2013-03-13 Dieser Band Numerische Mathematik hat Prinzipien des numerischen Rechnens, numerische lineare Algebra und Näherungsmethoden in der Analysis zum Inhalt. Der Begriff der Approximation zieht sich als roter Faden durch den gesamten Text. Die Betonung liegt dabei weniger auf der Bereitstellung möglichst vieler Algorithmen, als vielmehr auf der Vermittlung mathematischer Überlegungen, die zur Konstruktion von Verfahren führen. Jedoch werden auch der algorithmische Aspekt und entsprechende Effizienzbetrachtungen gebührend berücksichtigt. An vielen Stellen geht der dargebotene Stoff über den Inhalt einer einschlägigen Vorlesung zur numerischen Mathematik hinaus, so dass man beim Gebrauch des Buches neben einer solchen Vorlesung eine Auswahl treffen wird. Dem Charakter der Reihe Grundwissen Mathematik entsprechend sind zahlreiche historische Anmerkungen eingeflochten. Besonderer Wert wird auf Querverbindungen und motivierende Erklärungen gelegt. Das Buch eignet sich zum Selbststudium und auch als Begleittext zu Vorlesungen. Diese 2. Auflage wurde bearbeitet und ergänzt. Zu den Ergänzungen gehört eine Darstellung der Idee der schnellen Fouriertransformation.

Numerische Mathematik Martin Hermann, 2025-10-20 Die Numerische Mathematik ist einer der Grundpfeiler des Mathematik-Ingenieur-Physik- und Informatikstudiums. Dieses zweibändige Lehrbuch ist für Einführungsvorlesungen konzipiert.

und legt eine solide Basis für weiterführende Lerneinheiten. Der Text ist aus Vorlesungsmanuskripten hervorgegangen, die der Verfasser seit etwa 30 Jahren für seine Grundvorlesungen auf dem Gebiet der Numerischen Mathematik und des Wissenschaftlichen Rechnens an der Friedrich Schiller Universität Jena verwendet. Das Buch deckt den gesamten Bereich der Numerischen Mathematik von den klassischen Techniken wie Gaußscher Algorithmus und Newtonsches Verfahren bis hin zu modernen Algorithmen wie kubische Spline Interpolation, Kleinste Quadrate Approximation mittels Householder und Givens Transformationen sowie Deflationstechniken ab. Die Verfahren werden mathematisch exakt beschrieben, in MATLAB Codes implementiert und anhand von Beispielen demonstriert. Die MATLAB Codes sind auf der Webseite des Verlages zum Download bereitgestellt, so dass der Leser seine eigenen Experimente mit den numerischen Verfahren durchführen kann. Durch seinen didaktischen Aufbau und die zahlreichen anschaulichen Beispiele und Übungsaufgaben eignet sich dieses Buch hervorragend als Vorlesungsbegleitende Lektüre und als Grundlage für ein erfolgreiches Selbststudium. Gleichzeitig kann es von Mathematikern, Naturwissenschaftlern und Ingenieuren als profundes Nachschlagewerk herangezogen werden.

Einführung in die Numerische Mathematik Thomas Richter, Henry von Wahl, Thomas Wick, 2024-12-16. Dieses Lehrbuch behandelt zeitgemäß anwendungsorientiert und ausführlich die theoretischen Grundlagen der Numerik. Dabei sind zusätzlich zu den gängigen Inhalten zahlreiche angewandte Beispiele und Praxis Exkurse eingebunden, um das Verständnis nachhaltig zu fördern. Beweise werden sehr kleinteilig in vielen detailliert beschriebenen Schritten dargestellt. Auf die sich wiederholenden zentralen Kernkonzepte der Numerik, z.B. Stabilität, Effizienz, Robustheit, Genauigkeit, wird explizit eingegangen, und diese Begriffe werden klar gegeneinander abgegrenzt. Außerdem werden Numerische Verfahren der Linearen Algebra und der Analysis getrennt dargestellt, was den Studierenden den Zugang zur Numerik ausgehend von den beiden Grundvorlesungen des Mathematik Studiums deutlich erleichtert. Das Buch ist daher sowohl für Studierende der Mathematik als auch der Physik, der Informatik oder der Ingenieurwissenschaften bestens geeignet. Für die 2. Auflage wurde das Buch umfassend bearbeitet und erweitert. Unter anderem wurden Aspekte des maschinellen Lernens und neuronaler Netze aufgenommen, der Teil zu Krylow Raum Verfahren ausgebaut, sowie angegebene Algorithmen durch konkrete Python Codes ersetzt. Konkrete exemplarische Rechnungen werden nun auch mit diesen Python Programmen durchgeführt. Numerische Mathematik Jochen Werner, 2013-12-01. Das vorliegende Buch, wie auch seine Fortsetzung, ist aus Vorlesungen entstanden, die ich seit einigen Jahren an der Universität Göttingen halte. Diese Vorlesungen wenden sich an Studentinnen und Studenten der Mathematik und Physik ab dem dritten Semester. Daher werden auch in diesem Buch Kenntnisse der Analysis bzw. der linearen Algebra vorausgesetzt, wie sie üblicherweise in den ersten beiden bzw. dem ersten Semester vermittelt werden. Andererseits bietet gerade eine Vorlesung über numerische Mathematik eine gute Möglichkeit, diese Kenntnisse aufzufrischen, da die eigentlich schon bekannten Grundbegriffe in einem neuen Zusammenhang erscheinen. Das entsprechende gilt so hoffe ich auch für dieses Buch. Ziel beim Schreiben dieses Buches war es, den beiden Worten im Titel Numerische Mathematik

gerecht zu werden. Hierzu soll gezeigt werden, dass der Durch- und stetisch befriedigender Maßschnitt zwischen praktisch relevanter Numerik thematisch nicht nur nichtleer, sondern sogar ziemlich groß ist. Um dies zu vermitteln, wurde eine möglichst gut lesbare Darstellung angestrebt, welche insbesondere ein Selbststudium erleichtert. Numerische Mathematik Hans-Görg Roos, Hubert Schwetlick, 2013-03-12. Dieses Lehrbuch ist eine verständlich geschriebene, kompakte Einführung in die numerische Mathematik. Es wendet sich an alle jene, die numerische Verfahren zur Computersimulation realer Prozesse mittels mathematischer Modelle einsetzen und die Grundgedanken der dazu geeigneten Verfahren verstehen wollen. Schwerpunkte bilden numerische Verfahren für lineare und nichtlineare Gleichungssysteme, Eigenwertaufgaben, Interpolation und Approximation, numerische Differentiation und Integration sowie für Anfangswertaufgaben bei gewöhnlichen und Randwertaufgaben bei partiellen Differentialgleichungen. Außerdem geben die Autoren die berufspraktische Lehr- und Forschungserfahrungen verfassten zahlreiche Hinweise auf moderne, vertiefende Literatur und aktuelle verfügbare Software.

Numerische Mathematik 1 Josef Stoer, 2013-07-02. Aus den Besprechungen: Diese Einführung zeichnet sich durch eine klare, gut lesbare Darstellung aus und ist eine gelungene Synthese zwischen theoretischer Begründung und praktischer Anwendung der behandelten Methoden. Deshalb ist sie auch zu einem Standardlehrbuch der Numerischen Mathematik geworden. Internationale Mathematische Nachrichten 1. Unter den Numerik Lehrbüchern sei auf das vorliegende Buch besonders hingewiesen, da hier bei allen Ansprüchen an mathematische Strenge das Schwergewicht auf die Bereitstellung von praktikablen Algorithmen nach neuesten Erkenntnissen mit vielen numerischen Beispielen und kritischen Beurteilungen liegt. Die neue Hochschule Numerische Mathematik Markus Neher, 2024-06-17. Dieses Lehrbuch bietet einen breit aufgestellten und dennoch kompakten Überblick zu den gängigen Verfahren der Numerik. Durch zahlreiche Beispiele und erläuternde Bemerkungen ist es besonders anschaulich und eignet sich auch für Lehramtsstudierende. Behandelt werden numerische Verfahren zur Lösung linearer und nichtlinearer Gleichungssysteme, zur Eigenwertberechnung bei Matrizen, zur Approximation univariater Funktionen sowie zur näherungsweise Integration bezüglich einer Verankerung. Ein einführendes erstes Kapitel schafft insbesondere das nötige Grundverständnis für die zentralen Begriffe Kondition und Stabilität, die aber erst im letzten Kapitel rigoros diskutiert werden, um den Einstieg in die Numerik nicht durch aufwendige Stabilitätsanalysen zu erschweren. Die einzelnen Kapitel sind größtenteils unabhängig voneinander teilweise können auch einzelne Abschnitte separat gelesen werden. Punktuell Lernen und Nachschlagen ist damit problemlos möglich. *Numerical Mathematics / Numerische Mathematik* ANSORGE, GLASHOFF, WERNER, 2013-12-20.

Numerische Mathematik kompakt Robert Plato, 2007-12-14. Dieses Lehrbuch behandelt in kompakter und übersichtlicher Form die grundlegenden Themen der Numerischen Mathematik. Es vermittelt ein solides Basiswissen der wichtigen Algorithmen und dazugehörigen Fehler- und Aufwandsbetrachtungen, das zur Lösung von zahlreichen in der Praxis auftretenden mathematischen Problemstellungen benötigt wird. Lösungen findet man in dem zugehörigen Lösungsbuch. Das

Lehrbuch ist ohne weitere Themenauswahl als Vorlage für zwei jeweils vierstündige einführende Numerikvorlesungen verwendbar

Reviewing **Numerische Mathematik**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Numerische Mathematik**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Numerische Mathematik Introduction

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