

1. Übungsblatt

Invertierbarkeit:

- A ist invertierbar, wenn A strikt diagonaldominant ist
- A ist invertierbar, wenn A irreduzibel ist UND das schwache Zeilenkriterium erfüllt
- A ist invertierbar, wenn $\det(A) \neq 0$, denn dann ist $\lambda = 0$
- Für $A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$ mit $\det(A) \neq 0$ gilt: kein EW von A

$$A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$$

Determinante:

- $\det \begin{pmatrix} a & b \\ c & d \end{pmatrix} = ad - bc$
- Dreiecksmatrix: Determinante = Produkt der Diagonalelemente
- zwei gleiche Spalten: $\det(A) = 0$

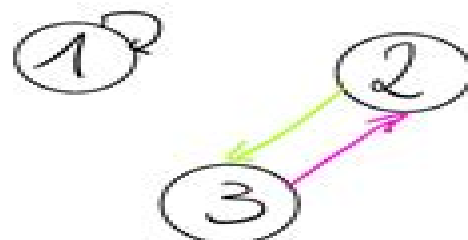
Reduzibilität

Graphenkriterium: n Knoten bei $n \times n$ Matrix
Ist es von jedem Knoten möglich, die anderen zu erreichen? $\rightarrow$ ja, dann irreduzibel

Beispiel:

		1	2	3
von	1	4	0	0
2	0	0	1	
3	0	0	0	

$\Rightarrow$



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.

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Table of Contents Numerische Mathematik

1. Understanding the eBook Numerische Mathematik
 - The Rise of Digital Reading Numerische Mathematik
 - Advantages of eBooks Over Traditional Books
2. Identifying Numerische Mathematik
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Numerische Mathematik
 - User-Friendly Interface
4. Exploring eBook Recommendations from Numerische Mathematik
 - Personalized Recommendations
 - Numerische Mathematik User Reviews and Ratings
 - Numerische Mathematik and Bestseller Lists
5. Accessing Numerische Mathematik Free and Paid eBooks
 - Numerische Mathematik Public Domain eBooks
 - Numerische Mathematik eBook Subscription Services
 - Numerische Mathematik Budget-Friendly Options
6. Navigating Numerische Mathematik eBook Formats

- ePub, PDF, MOBI, and More
 - Numerische Mathematik Compatibility with Devices
 - Numerische Mathematik Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Numerische Mathematik
 - Highlighting and Note-Taking Numerische Mathematik
 - Interactive Elements Numerische Mathematik
 8. Staying Engaged with Numerische Mathematik
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Numerische Mathematik
 9. Balancing eBooks and Physical Books Numerische Mathematik
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Numerische Mathematik
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Numerische Mathematik
 - Setting Reading Goals Numerische Mathematik
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Numerische Mathematik
 - Fact-Checking eBook Content of Numerische Mathematik
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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