

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

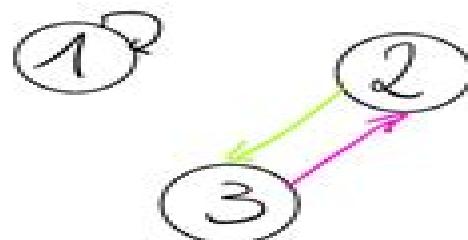
Beispiel:

von

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

nach

$\Rightarrow$



Numerische Mathematik

Sabine Zange



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