Formelsammlung MRT & A

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Kapitel 1

Matrizen

1.1 Grundlagen

Matrize

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} & a_{1n} \\ a_{21} & a_{22} & a_{23} & a_{2n} \\ a_{31} & a_{32} & a_{33} & a_{3n} \\ a_{m1} & a_{m2} & a_{m3} & a_{mn} \end{bmatrix}$$

A = [Spalten,Zeilen]

Transponierte

$$A = \begin{bmatrix} a_{11} & a_{12} & a_{13} & a_{1n} \\ a_{21} & a_{22} & a_{23} & a_{2n} \\ a_{31} & a_{32} & a_{33} & a_{3n} \\ a_{m1} & a_{m2} & a_{m3} & a_{mn} \end{bmatrix}^T = \begin{bmatrix} a_{11} & a_{21} & a_{31} & a_{n1} \\ a_{12} & a_{22} & a_{32} & a_{n2} \\ a_{13} & a_{23} & a_{33} & a_{n3} \\ a_{1n} & a_{2m} & a_{3m} & a_{nm} \end{bmatrix}$$