

Steifig leitsmatrix der Gesamtstruktur

$$[v] = \frac{E_A}{c}$$

Handwritten mathematical work on a grid background, showing three 3x3 matrices labeled $K(11)$, $K(21)$, and $K(22)$. The matrices contain complex expressions involving square roots and fractions. A green horizontal line is drawn across the middle of the page, separating the matrices. The matrices are arranged in a 2x2 grid, with the bottom-right cell being empty.

Matrix $K(11)$:

$$\begin{bmatrix} 1 + \frac{1}{2\sqrt{2}} & -\frac{1}{2\sqrt{2}} & -1 \\ -1 & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{bmatrix}$$

Matrix $K(21)$:

$$\begin{bmatrix} -\frac{1}{2\sqrt{2}} & -\frac{1}{2\sqrt{2}} & -1 \\ -1 & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{bmatrix}$$

Matrix $K(22)$:

$$\begin{bmatrix} -\frac{1}{2\sqrt{2}} & -\frac{1}{2\sqrt{2}} & -1 \\ -1 & \cdot & \cdot \\ \cdot & \cdot & \cdot \end{bmatrix}$$