

array-Variante

Diagram illustrating the structure of the matrix $K^{e,g}$. The matrix is partitioned into 3x3 blocks. The diagonal blocks are highlighted in gray and labeled $K_{11}^{e,g}$, $K_{22}^{e,g}$, and $K_{33}^{e,g}$. The off-diagonal blocks are white. The matrix is labeled $K^{e,g}$ in the top right corner.

bordermatrix-Variante

boardermatrix-Makro-Code

```

1 \makeatletter
2 \newif\if@borderstar
3 \def\bordermatrix{\@ifnextchar*{%
4   \@borderstartrue\@bordermatrix@i}
5   {\@borderstarfalse\@bordermatrix@i*}%
6 }
7 \def\@bordermatrix@i*{\@ifnextchar[{\@bordermatrix@ii}
8   {\@bordermatrix@ii[()]}}
9 \def\@bordermatrix@ii[#1]#2{%
10 \begingroup
11   \m@th\@tempdima8.75\p@\setbox\z@\vbox{%
12     \def\cr{\crr\noalign{\kern 2\p@\global\let\cr\endline }}%
13     \ialign {$##$\hfil\kern 2\p@\kern\@tempdima & \thinspace %
14     \hfil $##$\hfil && \quad\hfil $##$\hfil\crr\omit\strut %
15     \hfil\crr\noalign{\kern -\baselineskip}#2\crr\omit %
16     \strut\cr}}%
17   \setbox\tw@\vbox{\unvcopy\z@\global\setbox\@ne\lastbox}%
18   \setbox\tw@\hbox{\unhbox\@ne\unskip\global\setbox\@ne\lastbox}%
19   \setbox\tw@\hbox{%
20     $\kern\wd\@ne\kern -\@tempdima\left\@firstoftwo#1%
21     \if@borderstar\kern2pt\else\kern -\wd\@ne\fi%
22     \global\setbox\@ne\vbox{\box\@ne\if@borderstar\else\kern 2\p@\fi}%
23     \vcenter{\if@borderstar\else\kern -\ht\@ne\fi%
24       \unvbox\z@\kern-\if@borderstar2\fi\baselineskip}%
25     \if@borderstar\kern-2\@tempdima\kern2\p@\else\,\fi\right
26     \@secondoftwo#1 $%
27   }\null \; \vbox{\kern\ht\@ne\box\tw@}%
28 \endgroup
29 }
30 \makeatother

```

Listing 1: boardermatrix-Makro-Code