E$_{kl\alpha}$

$$\mathrm{E}_{kl\alpha} = (a_{ij}) \text{ if } k \neq l, \quad a_{ij} = \begin{cases} 1 & \text{if } i = j \\ \alpha & \text{if } i = k, j = l \\ 0 & \text{otherwise} \end{cases}$$

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What does $E_{kl\alpha}A$ mean?

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What does $\mathrm{E}_{kl\alpha}\mathrm{A}$ mean?

A matrix obtained by multiplying the l row of matrix A by α times the k row of matrix A and adding it to the k row.

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What does $\mathrm{AE}_{kl\alpha}$ mean?

$$E_{kl\alpha} = (a_{ij}) \text{ if } k \neq l, \quad a_{ij} = \begin{cases} 1 & \text{if } i = j \\ \alpha & \text{if } i = k, j = l \\ 0 & \text{otherwise} \end{cases}$$

What does $E_{kl\alpha}A$ mean?

A matrix obtained by multiplying the l row of matrix A by α times the k row of matrix A and adding it to the k row.

What does $AE_{kl\alpha}$ mean?

A matrix obtained by multiplying the l column of matrix A by α times the k column of matrix A and adding it to the k column.

$$\mathrm{E}_{kl\alpha} = (a_{ij}) \text{ if } k \neq l, \quad a_{ij} = \begin{cases} 1 & \text{if } i = j \\ \alpha & \text{if } i = k, j = l \\ 0 & \text{otherwise} \end{cases}$$

What does E$_{kl\alpha}$A mean?

A matrix obtained by multiplying the l row of matrix A by α times the k row of matrix A and adding it to the k row.

What does AE$_{kl\alpha}$ mean?

A matrix obtained by multiplying the l column of matrix A by α times the k column of matrix A and adding it to the k column.

$$\left(\mathrm{E}_{kl\alpha}\right)^{-1} = \mathrm{E}_{kl(-\alpha)}$$

Github:
https://min7014.github.io/math20240623001.html

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