

Algorithm: $A := \text{UDUT-TRI}(A)$

Partition $A \rightarrow$	$\begin{pmatrix} \text{AFF} & \alpha_{FME_L} \\ * & \alpha_{mm} \\ * & * \end{pmatrix}$	$\begin{pmatrix} 0 \\ \alpha_{mEF} \\ A_L \end{pmatrix}$	where A_L is 0×0
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Repartition	Aff	α_{FUEL}	0	α_{00}	0
	*	α_{MM}	α_{FUEL}^T	*	α_{12}
	*	*	A	*	α_{22}
				*	α_{33}

There are 3 possible algorithms

$$u_{012} = \frac{\phi_{012}}{211}$$

$$\alpha_{01} c_L = \frac{\alpha_{01} c_L}{\alpha_{11}}$$

$$A_{00} = A_{00} - \frac{1}{\alpha_{11}} (a_{01} e_L) (a_{01} e_L)^T$$

$A_{00} = A_{00} - w_0 \cdot \alpha_{00}$
Updating upper diagonal

$$A_{00} = A_{00} - \alpha_{11} \alpha_{01} \alpha_{10} \alpha_{00}$$

(updating upper triangle)

$$\alpha_{01} e_L = \alpha_{01} e_L / \alpha_{11}$$

Continue with

$$C = \begin{pmatrix} \alpha_{00} & \alpha_{10} & \alpha_{20} \\ \alpha_{01} & \alpha_{11} & \alpha_{21} \\ \alpha_{02} & \alpha_{12} & \alpha_{22} \end{pmatrix}$$

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