

$$\begin{bmatrix} & \\ & \\ & \\ & \end{bmatrix}$$

Independent columns in  $C$

$$\begin{bmatrix} \diagdown \\ 0 \end{bmatrix}$$

Triangular matrices  $L$  and  $U$

$$\begin{bmatrix} \diagdown \\ 0 \end{bmatrix}$$

Orthogonal columns in  $Q$

$$Q^{-1}$$

Orthogonal eigenvectors  $Sq = \lambda q$

envalues in  $\Lambda$  Eigenvectors in  $X$

$$Ax = \Lambda x$$

gonal  $\Sigma$  = Singular values  $\sigma = \sqrt{\lambda(A^T A)}$

hogonal vectors in  $U^T U = V^T V = I$   $Ae = \sigma e$



# Mit Linear Algebra Lectures

**S Baum**



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 a write the overall balanced chemical equation  
 $2\text{O}_3 \rightarrow 3\text{O}_2$   
 b identify any intermediates within the mechanism  
 c what is the order with respect

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