

$$\textcircled{6} \quad \begin{pmatrix} a_{00} & a_{01} & a_{02} & a_{03} & a_{04} \\ & a_{11} & a_{12} & a_{13} & a_{14} \\ & & a_{22} & a_{23} & a_{24} \\ & & & a_{33} & a_{34} \\ & & & & a_{44} \end{pmatrix} \begin{pmatrix} x_0 \\ x_1 \\ x_2 \\ x_3 \\ x_4 \end{pmatrix} = \begin{pmatrix} b_0 \\ b_1 \\ b_2 \\ b_3 \\ b_4 \end{pmatrix}$$

$$a_{00}x_0 + a_{01}x_1 + a_{02}x_2 + a_{03}x_3 + a_{04}x_4 = b_0$$

$$a_{11}x_1 + a_{12}x_2 + a_{13}x_3 + a_{14}x_4 = b_1$$

$$a_{22}x_2 + a_{23}x_3 + a_{24}x_4 = b_2$$

$$a_{33}x_3 + a_{34}x_4 = b_3$$

$$a_{44}x_4 = b_4$$

$$x_4 = \frac{b_4}{a_{44}}$$

$$x_3 = \frac{b_3 - a_{34}x_4}{a_{33}}$$

$$x_2 = \frac{b_2 - (a_{23}x_3 + a_{24}x_4)}{a_{22}}$$

$$X_1 = \frac{b_1 - (a_{12}X_2 + a_{13}X_3 + a_{14}X_4)}{a_{11}}$$

$$X_0 = \frac{b_0 - (a_{01}X_1 + a_{02}X_2 + a_{03}X_3 + a_{04}X_4)}{a_{00}}$$

$$X_i = \frac{b_i - \sum_{j=i+1}^n a_{ij}X_j}{a_{ii}} \quad i = n, n-1, \dots, 0$$