

$$\begin{array}{c}
 \text{A} \\
 \left. \begin{array}{c} a_{11} \ a_{12} \ \dots \ a_{1n} \\ a_{21} \ a_{22} \ \dots \ a_{2n} \\ \vdots \\ a_{j1} \ a_{j2} \ \dots \ a_{jn} \\ \vdots \\ a_{m1} \ a_{m2} \ \dots \ a_{mn} \end{array} \right\} \begin{array}{l} \text{jth row} \\ m \text{ rows} \end{array} \\
 \underbrace{\hspace{10em}}_{n \text{ columns}}
 \end{array}
 \begin{array}{c}
 \text{B} \\
 \left[\begin{array}{cccccc} b_{11} & b_{12} & \dots & b_{1k} & \dots & b_{1p} \\ b_{21} & b_{22} & \dots & b_{2k} & \dots & b_{2p} \\ \vdots & \vdots & \ddots & \vdots & \ddots & \vdots \\ b_{n1} & b_{n2} & \dots & b_{nk} & \dots & b_{np} \end{array} \right] \begin{array}{l} \text{kth column} \\ n \text{ rows} \end{array} \\
 \underbrace{\hspace{10em}}_{p \text{ columns}}
 \end{array}
 =
 \begin{array}{c}
 \text{C} \\
 \left[\begin{array}{cccccc} c_{11} & c_{12} & \dots & c_{1k} & \dots & c_{1p} \\ c_{21} & c_{22} & \dots & c_{2k} & \dots & c_{2p} \\ \vdots & \vdots & \ddots & \vdots & \ddots & \vdots \\ c_{j1} & c_{j2} & \dots & c_{jk} & \dots & c_{jp} \\ \vdots & \vdots & \ddots & \vdots & \ddots & \vdots \\ c_{m1} & c_{m2} & \dots & c_{mk} & \dots & c_{mp} \end{array} \right] \begin{array}{l} m \text{ rows} \\ p \text{ columns} \end{array}
 \end{array}$$