

$$\begin{array}{c} \begin{array}{c} \overleftarrow{k_1} \quad \overleftarrow{k_2} \\ \text{---} \times \text{---} \end{array} \\ \begin{array}{c} \uparrow \downarrow \\ n_1 \\ \uparrow \downarrow \\ n_2 \end{array} \end{array} \left( \begin{array}{cc} A_{11} & A_{12} \\ A_{21} & A_{22} \end{array} \right) \times \begin{array}{c} \begin{array}{c} \overleftarrow{p_1} \quad \overleftarrow{p_2} \\ \text{---} \times \text{---} \end{array} \\ \begin{array}{c} \uparrow \downarrow \\ k_1 \\ \uparrow \downarrow \\ k_2 \end{array} \end{array} \left( \begin{array}{cc} B_{11} & B_{12} \\ B_{21} & B_{22} \end{array} \right) = \begin{array}{c} \begin{array}{c} \overleftarrow{p_1} \quad \overleftarrow{p_2} \\ \text{---} \times \text{---} \end{array} \\ \begin{array}{c} \uparrow \downarrow \\ n_1 \\ \uparrow \downarrow \\ n_2 \end{array} \end{array} \left( \begin{array}{cc} A_{11}B_{11} + A_{12}B_{21} & A_{11}B_{12} + A_{12}B_{22} \\ A_{21}B_{11} + A_{22}B_{21} & A_{21}B_{12} + A_{22}B_{22} \end{array} \right)$$