与水 たとです:: 当 シレージネレリエアイ 数 まらったいす 2017/11/3

$$= \begin{bmatrix} B_{11} & B_{12} \\ B_{21} & B_{22} \end{bmatrix}$$

2, 这样: ① A、B为 ②型元即。 例如13元期分别

$$A = \begin{bmatrix} A_{11} & A_{12} & --- & A_{1S} \\ A_{21} & A_{22} & --- & A_{2S} \end{bmatrix} \quad B = \begin{bmatrix} B_{11} & B_{12} & --- & B_{1S} \\ B_{21} & B_{22} & --- & B_{2S} \end{bmatrix}$$

$$A_{11} & A_{12} & --- & A_{12} & B_{13} & B_{23} & --- & B_{23} & B_{23} & B_{23} & B_{23} & --- & B_{23} & B_{23} & B_{23} & B_{23} & B_{23} & --- & B_{23} & B_{$$

Aij 5 Bij 4 (2) # FR 13

$$A + B = \begin{bmatrix} A_{11} + B_{11} & --- & A_{1s} + B_{1s} \\ A_{21} + B_{21} & --- & A_{2s} + B_{2s} \end{bmatrix}$$

$$A_{r_1} + B_{r_1} - --- A_{r_s} + B_{r_s}$$

$$A_{r_1} + B_{r_1} - --- A_{r_s} + B_{r_s}$$

$$A_{r_1} + B_{r_1} - --- A_{r_s} + B_{r_s}$$

$$\frac{1}{4} \frac{1}{4} \frac{1$$

$$A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$$

$$A^{T} = \begin{bmatrix} 1 & 4 & 7 \\ 2 & 5 & 8 \\ 3 & 6 & 9 \end{bmatrix}$$

$$\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} = \begin{bmatrix} \frac{2}{\sqrt{1}} & \frac{1}{\sqrt{1}} & \frac{1}{\sqrt{1}} \\ \frac{1}{\sqrt{1}} & \frac{1}{\sqrt{1}} & \frac{1}{\sqrt{1}} \\ \frac{1}{\sqrt{1}} & \frac{1}{\sqrt{1}} & \frac{1}{\sqrt{1}} \end{bmatrix}$$

$$\frac{1}{\sqrt{1}} \frac{1}{\sqrt{1}} \frac{1}{\sqrt{$$

$$A = \begin{bmatrix} A_{11} & A_{12} & A_{1S} \\ \hline A_{21} & A_{22} & --- & A_{2S} \\ \hline A_{r_1} & A_{r_2} & A_{r_S} \end{bmatrix} \quad B_2 \begin{bmatrix} B_{11} & --- & B_{2t} \\ B_{21} & --- & B_{2t} \\ \hline B_{S1} & --- & B_{St} \end{bmatrix}$$

$$A = \begin{bmatrix} 2 & 0 & 0 \\ \hline 1 & 0 & 0 \\ \hline 3 & 1 & 0 \\ \hline 2 & 0 & 0 \end{bmatrix}$$

$$B = \begin{bmatrix} 1 & 2 & 0 & 0 & 0 \\ \hline 2 & 3 & 1 & 3 & 1 \\ \hline 0 & 2 & 2 & 0 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} A_{11} & 0 & 0 & 0 \\ 2 & 0 & 1 & 0 \\ \hline 0 & 1 & 0 & 0 \end{bmatrix}$$

$$\begin{array}{c}
\left(\beta_{21}\right), \beta_{22} \\
\beta_{11}\beta_{11} + \left(\beta_{21}\right) \\
\left(2x^{2}\right), \left(2x^{2}\right), \left(2x^{2}\right)
\end{array}$$

$$= \begin{bmatrix} 2 \\ 1 \end{bmatrix} \begin{bmatrix} 1 & 2 \end{bmatrix} + \left(\beta_{21}\right) \begin{bmatrix} 2 & 3 \\ 6 & 2 \end{bmatrix}$$

$$=\begin{bmatrix} 2 & 4 \\ 1 & 2 \end{bmatrix}$$

$$\beta = \begin{bmatrix} \beta_{11} & \cdots & \beta_{1t} \\ \beta_{21} & \cdots & \beta_{2t} \\ \vdots & \vdots & \cdots & \beta_{st} \end{bmatrix}$$

A 21/3/3 5 B ES 5 13. In 12).

C=AB =
$$\begin{bmatrix} C_{11} & -C_{12} & \cdots & C_{14} \\ C_{21} & C_{22} & \cdots & C_{24} \end{bmatrix}$$

$$\begin{bmatrix} C_{11} & = A_{21}B_{1j} + A_{12}B_{2j} + \cdots + A_{13}B_{2j} \\ C_{11} & = A_{21}B_{1j} + A_{12}B_{2j} + \cdots + A_{13}B_{2j} \end{bmatrix}$$

$$\begin{bmatrix} C_{11} & = A_{21}B_{1j} + A_{12}B_{2j} + \cdots + A_{13}B_{2j} \\ C_{21} & = C_{21}B_{2j} \end{bmatrix}$$

$$\begin{bmatrix} C_{11} & = C_{21}B_{2j} \\ C_{21} & = C_{22}B_{2j} \end{bmatrix}$$

$$\begin{bmatrix} C_{11} & = C_{22}B_{2j} \\ A_{21} & = C_{22}B_{2j} \end{bmatrix}$$

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$$A_{12} & = C_{22}B_{2j}$$

$$A_{12} & = C_{22}B_{2j}$$

$$A_{13} & = C_{22}B_{2j$$

$$\{a\}: A = \begin{bmatrix} B \\ O \end{bmatrix}$$
 $B, C + j \times g \not \not b \rightarrow l \not b$.

$$\begin{bmatrix}
3_n & p_{nxm} \\
0 & c_m
\end{bmatrix}
\begin{bmatrix}
X_n & Z_{nxm} \\
W & Y_m
\end{bmatrix}$$

$$\begin{bmatrix}
I_n \\
I_m
\end{bmatrix}$$

$$mxn$$

$$\begin{cases} BX + DW = I \\ BZ + DY = O \end{cases}$$

$$CW = O \implies c^{-1}CW = C^{-1}O$$

$$CY = I \implies Y = C^{-1}$$

$$B'Z = -DY = -DC^{-1} \Rightarrow Z = -B^{\dagger}DC^{-1}$$

$$X = B^{-1}$$

$$\begin{bmatrix} B & D \\ O & C \end{bmatrix} = \begin{bmatrix} B^{-1} & -B^{-1}DC^{-1} \\ O & C^{-1} \end{bmatrix}$$

分块治路上初节复约:

$$M = \begin{bmatrix} A_s & B \\ C & D_t \end{bmatrix} \qquad A \cdot D \times 3 75$$

①用可递知了力力。第一步的

②日天即如及京班二草中上行加到另一是

(3) 3. 7/2 M = (70) 7 2)

$$\begin{bmatrix} P_{s} & O \\ O & \overline{I_{t}} \end{bmatrix} \begin{bmatrix} A_{s} & B \\ C & D_{t} \end{bmatrix} = \begin{bmatrix} PA & PB \\ C & D \end{bmatrix}$$

$$\begin{bmatrix} I_s & O \\ Q_{txs} & J_t \end{bmatrix} \begin{bmatrix} A_s & B_{sxt} \\ C_{txs} & D_t \end{bmatrix} = \begin{bmatrix} A & B \\ OA + C & OB + D \end{bmatrix}$$

第一分方在歌 Qtxs か別声二分了

$$\begin{bmatrix} O & I_t \\ I_s & O \end{bmatrix} \begin{bmatrix} A_s & B \\ C & D_t \end{bmatrix} = \begin{bmatrix} C & D \\ A & B \end{bmatrix}$$

丸' A-1

$$\begin{cases} A' : \overline{1} \\ A' : \overline{1} \end{cases} = \begin{bmatrix} B_n D' : \overline{1}_n O \\ O C_{m_1} O \overline{1}_m \end{bmatrix}$$

$$\frac{\bar{A}}{3} = i 5 \pm \bar{3} - B^{T}D \left[\begin{array}{c} I_{n} \\ O \end{array} \right] \frac{B^{-1}}{I_{m}} - B^{T}DC^{-1} \\
A^{-1} = \begin{bmatrix} A & B \\ O & C^{-1} \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} A & B \\ C & D \end{bmatrix} A_{3} = i 5 \pm i 5$$

$$\begin{array}{c|c}
1 \cdot |A^{\dagger}| \cdot 1 & |M| = |D - CA^{\dagger}B| \\
|M| = |A| \cdot |D - CA^{\dagger}B| \\
\hline
2 & |M| \neq 0 \text{ of } |A \neq 2 \text{ of } A^{\dagger}B| \\
|M = |A| \cdot |D - CA^{\dagger}B| \stackrel{?}{=} 2 \text{ of } A^{\dagger}B| \\
|M = |A| \cdot |D - CA^{\dagger}B| \stackrel{?}{=} 2 \text{ of } A^{\dagger}B| \\
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|M = |A| \cdot |D - CA^{\dagger}B| \stackrel{?}{=} 2 \text{ of } A^{\dagger}B| \\
|M = |A| \cdot |D$$

$$\begin{vmatrix} A_m & B \\ O & C_n \end{vmatrix} = |A| \cdot |C|$$

$$\begin{vmatrix} A & B \\ C & D \end{vmatrix} \neq |A| |D| - |B| |C|$$

$$(a|3: |A|=2. |B|=3. |A| = 3. |A| = 3.$$

$$(a) = \begin{bmatrix} A_n & 0 \\ -I & B_n \end{bmatrix}$$

$$\begin{bmatrix} A & O \end{bmatrix} \xrightarrow{\overrightarrow{J}} \begin{bmatrix} O & AB \end{bmatrix}$$

$$\begin{bmatrix} -\overline{L} & B \end{bmatrix} \xrightarrow{\overline{J}} = 2ij \angle \overline{J} + 2ij \angle \overline{J} +$$

$$\begin{bmatrix} I & A \\ O & I \end{bmatrix} \begin{bmatrix} A & O \\ -I & B \end{bmatrix} = \begin{bmatrix} O & AB \\ -I & B \end{bmatrix}$$

$$|A||B| = (-1)^{n^{2}} |AB| |O|$$

$$= (-1)^{n^{2}+n} |AB| |-1| = (-1)^{n} |AB| |(-1)^{n}$$

$$= (-1)^{n^{2}+n} |AB|$$

$$= (-1)^{n^{2}+n} |AB|$$

$$= (-1)^{n+1} |AB|$$

$$2 - 2 |AB| = |A| |B|$$

$$A_{1} | A_{2} | A_{3} | A_{4} | A_{5} | A_{5} | A_{5} |$$

$$A_{5} | A_{5} | A_{5} | A_{5} |$$

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$$A_{2} | A_{3} |$$

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$$|\mathcal{T}|: A \in \mathcal{M}_{m,n} \quad \mathcal{B} \in \mathcal{M}_{n,m}$$

$$|\mathcal{T}|: A \in \mathcal{M}_{m,n} \quad \mathcal{B} \in \mathcal{M}_{n,m}$$

$$|\mathcal{T}|: A \in \mathcal{M}_{m,n} \quad \mathcal{B} \in \mathcal{M}_{n,m}$$