

$$[A + BC\bar{D}] \left\{ A^{-1} - A^{-1}B(\bar{C} + D\bar{A}^{-1}B)^{-1}\bar{D}A^{-1} \right\}$$

$$= I - B(\bar{C} + D\bar{A}^{-1}B)^{-1}\bar{D}A^{-1}$$

$$- BC\bar{D}A^{-1}B(\bar{C} + D\bar{A}^{-1}B)^{-1}\bar{D}A^{-1} + BC\bar{D}A^{-1}$$

$$= I + BC \left\{ -\bar{C}(\bar{C} + D\bar{A}^{-1}B)^{-1} + I \right.$$

$$\left. - D\bar{A}^{-1}B(\bar{C} + D\bar{A}^{-1}B)^{-1} \right\} \bar{D}A^{-1}$$

$$= I + BC \left\{ [-\bar{C} + \bar{C} + D\bar{A}^{-1}B - D\bar{A}^{-1}B] \right\} \bar{D}A^{-1}$$

↗

$$= I$$

$$\Rightarrow A_{\text{inv}} = A^{-1} - A^{-1}B(\bar{C} + D\bar{A}^{-1}B)^{-1}\bar{D}A^{-1} \text{ is}$$

also a valid right-inverse provided that

(i) A^{-1} exists

(ii) \bar{C}^{-1} exists

(iii) $(\bar{C}^{-1} + D\bar{A}^{-1}B)^{-1}$ exists

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