

ADDENDUM

Arazy, J.: Some remarks on interpolation theorems and the boundness of the triangular projection in unitary matrix spaces, Vol. 1/4 1978, pp. 453-495.

Theorems 2.4 and 2.7 were known earlier. See the following references:

1. Pietsch A.: Interpolationsfunktorem, Folgenideale und operatoren ideale, Czech. Math. J. 21(1971), 644-652.
2. Simon B.: Analysis with weak trace ideals and the number of bounded states of Schrödinger operators, Transactions of the American Math. Society, 224 (1976), 367-380.
3. Simon B.: Trace ideals and their applications (theorems 2.9 and 2.10, pp. 32-34), London Mathematical Society Lecture Notes Series No. 35, Cambridge University Press (1979).

The author thanks Professors Cwikel, Pietsch and Simon for bringing to his attention references [2], [1] and [3] respectively.

ERRATUM

Gohberg, I. and Lerer, L.: Factorization indices and Kronecker indices of matrix polynomials, Vol. 2/2 1979, pp. 199-243.

The last row in the second matrix in the definition of  $K(\lambda)$  on p. 200 should read  $[I \ 0 \ 0 \ \dots \ 0]$ , not  $[0 \ I \ 0 \ \dots \ 0]$ .

Lines 3-13 on p. 223 should read:

$$(2.11) \quad \lambda^i M_O^{-1}(\lambda) = X_f T_f^{i-\ell+2} (T_f - \lambda I)^{-1} Y_f + X_\infty T_\infty^{\ell-i-1} (I - \lambda T_\infty)^{-1} Y_\infty$$

$$(i = 0, 1, \dots, \ell - 1)$$

Denote

$$B_j(\lambda) \stackrel{\text{def}}{=} X_f T_f^{-j+1} B(\lambda) = X_f T_f^{-j+1} (\lambda I - T_f)^{-1} Y_f M_O(\lambda)$$

$$(j = 0, 1, \dots, \ell-1)$$

Then equalities (2.11) imply that

$$B_j(\lambda) = X_\infty T_\infty^j (I - \lambda T_\infty)^{-1} Y_\infty M_O(\lambda) - \lambda^{\ell-j-1} I \quad (j=0, 1, \dots, \ell-1)$$

As the matrix  $T_\infty$  is nilpotent, each matrix function  $B_j(\lambda)$  is actually a matrix polynomial. In addition

$$(2.12) \quad \text{col}(X_f T_f^{-j+2})_{j=1}^\ell \cdot B(\lambda) = \text{col}(B_{j-1}(\lambda))_{j=1}^\ell$$

But the matrix  $W = \text{col}(X_f T_f^{-j+2})_{j=1}^\ell$  has a left inverse  $W^{-1}$ .

The material placed on lines 11-20 on p. 223 and 1-10 on p. 224 should be deleted and instead the following sentence should be inserted:

$$\text{"Since } B_{\ell-1}(\lambda) = X_\infty T_\infty^{\ell-1} (I - \lambda T_\infty)^{-1} Y_\infty M_O(\lambda) - I$$

we conclude from the last equalities and (2.16) that  $\varphi = 0$ ."

We thank L. Rodman for drawing our attention to the above.