Erratum to the proof of Lemma 10.3.26, page 249

In the sequence of inequations

$$-\sum_{\substack{1\leq j\leq n\\ a_{i,j}<0}} |a_{i,j}| \quad\leq\quad (M_{k,n}\cdot y{\downarrow}^{(\ell)})_i \quad\leq\quad \sum_{\substack{1\leq j\leq n\\ a_{i,j}\geq 0}} |a_{i,j}|,$$

$(M_{k,n}\cdot y{\downarrow}^{(\ell)})_i$ must be replaced by $-(M_{k,n}\cdot y{\downarrow}^{(\ell)})_i$. Alternatively, one can use the following sequence of inequations:

$$\sum_{\substack{1\leq j\leq n\\ a_{i,j}<0}} |a_{i,j}| \quad\geq\quad (M_{k,n}\cdot y{\downarrow}^{(\ell)})_i \quad\geq\quad -\sum_{\substack{1\leq j\leq n\\ a_{i,j}\geq 0}} |a_{i,j}|.$$

The fact that, for all i, there are at most $1+\sum_{1\leq j\leq n}|a_{i,j}|$ possible values for $(M_{k,n}\cdot y{\downarrow}^{(\ell)})_i$ still follows from these new sequences of inequations. However, to have

$$1+\sum_{1\leq j\leq n}|a_{i,j}| \leq 1+\|M_{k,n}\|,$$

the definition of $\|M_{k,n}\|$ (see Definition 10.3.23) must be modified. Instead of summing up the absolute values in the columns, one must sum up the absolute values in the rows, i.e., the definition of $\|M_{k,n}\|$ should be

$$\|M_{k,n}\| := \max\{\sum_{1\leq j\leq n}|a_{i,j}| \mid 1\leq i\leq k\}.$$