









$$\begin{aligned}
|z(m, n)|^p &\leq c + \sum_{s=0}^{m-1} \sum_{t=0}^{n-1} a(s, t) |z(s, t)|^{p-1} \\
&+ \sum_{s=m_0}^{m-1} \sum_{t=n_0}^{n-1} [f(s, t) g(|z(s, t)|) \\
&+ \sum_{\sigma=0}^{s-1} \sum_{\tau=0}^{t-1} h(s, t, \sigma, \tau) g(|z(s, t)|)] |z(s, t)|^{p-1}.
\end{aligned}
\tag{3.8}$$

Now a suitable application of the inequality (2.14) given in Corollary 2.3 to (3.8) yields (3.6).

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