feedback-controlled subsystem relaxation

$\ldots \longrightarrow x_{k-2} \longrightarrow x_{k-1} \longrightarrow x_k \longrightarrow x_{k+1} \longrightarrow x_{k+2} \longrightarrow \ldots$

$\ldots \longrightarrow z_{k-2} \longrightarrow z_{k-1} \longrightarrow z_k \longrightarrow z_{k+1} \longrightarrow z_{k+2} \longrightarrow \ldots$
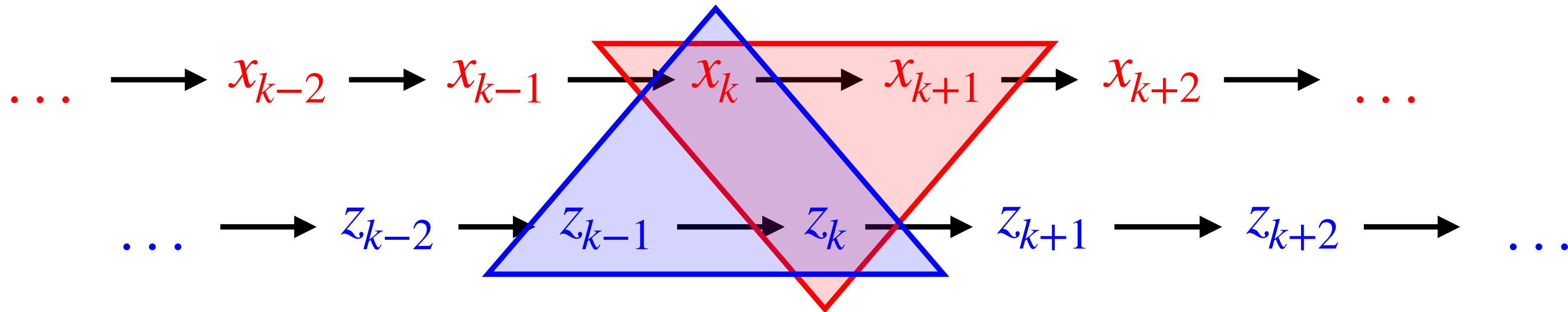
controller subsystem update