(pf) \$\vec{7} \cdot B^{n+1} = \vec{7} \cdot B^n \tan 3D

 $(\vec{\nabla} \cdot \vec{B}^{n})_{i,j,k} = [\frac{1}{\Delta X} (B_{X,i+X,j,k} - B_{X,i-X,j,k}) + \frac{1}{\Delta Y} (B_{Y,i,j+X,k} - B_{Y,i,j-X,k}) + \frac{1}{\Delta Z} (B_{Z,i,j,k+X}^{n} - B_{Z,i,j,k-X}^{n})] = 0$

 $B_{x,i-k,j,k}^{n+1} = B_{x,i-k,j,k}^{n} - \frac{\Delta t}{\Delta y} \left(\mathcal{E}_{z,i-k,j+k,k}^{n+k} - \mathcal{E}_{z,i-k,j-k,k}^{n+k} \right) + \frac{\Delta t}{\Delta z} \left(\mathcal{E}_{y,i-k,j,k+k}^{n+k} - \mathcal{E}_{y,i-k,j,k-k}^{n+k} \right)$

 $\vec{\nabla} \cdot \vec{B}^{n+1} - \vec{\nabla} \cdot \vec{B}^{n} = \frac{1}{\Delta X} (\vec{B}_{X,i+K}^{n+1} + \vec{B}_{X,i+K}^{n} - \vec{B}_{X,i+K}^{n+1} - \vec{B}_{X,i+K}^{n})$ $+ \frac{1}{\Delta Z} (\vec{B}_{Y,j+K}^{n+1} + \vec{B}_{Y,j+K}^{n} - \vec{B}_{Y,j+K}^{n+1} - \vec{B}_{Y,j+K}^{n})$ $+ \frac{1}{\Delta Z} (\vec{B}_{Z,k+K}^{n+1} + \vec{B}_{Z,k+K}^{n} - \vec{B}_{Z,k+K}^{n+1} - \vec{B}_{Z,k+K}^{n})$ $= \frac{1}{\Delta X} [2 \vec{B}_{X,i+K}^{n} - 2 \vec{B}_{X,i+K}^{n} + \frac{\Delta t}{\Delta y} (\vec{E}_{Z,i+K,j+K}^{n+K} - \vec{E}_{Z,i+K,j+K}^{n+K} - \vec{E}_{Z,i+K,j+K}^{n+K} - \vec{E}_{Z,i+K,j+K}^{n+K} - \vec{E}_{Z,i+K,j+K}^{n+K} - \vec{E}_{Y,i+K,k+K}^{n+K} - \vec{E}_{Y,i+K}^{n+K} - \vec{E}_{Y,i+$