$$c_o = \frac{1}{\sqrt{\varepsilon_o \mu_o}}$$

$$c_{min} = \frac{c_o}{\sqrt{\varepsilon_{max}}} \qquad c_{max} = \frac{c_o}{\sqrt{\varepsilon_{min}}}$$

$$\lambda_{min} = \frac{c_{min}}{f_{Ny}} \propto \Delta x \longrightarrow \Delta t = \frac{\text{cfl}}{c_{max}\sqrt{\left(\frac{1}{\Delta x}\right)^2 + \left(\frac{1}{\Delta y}\right)^2}}$$