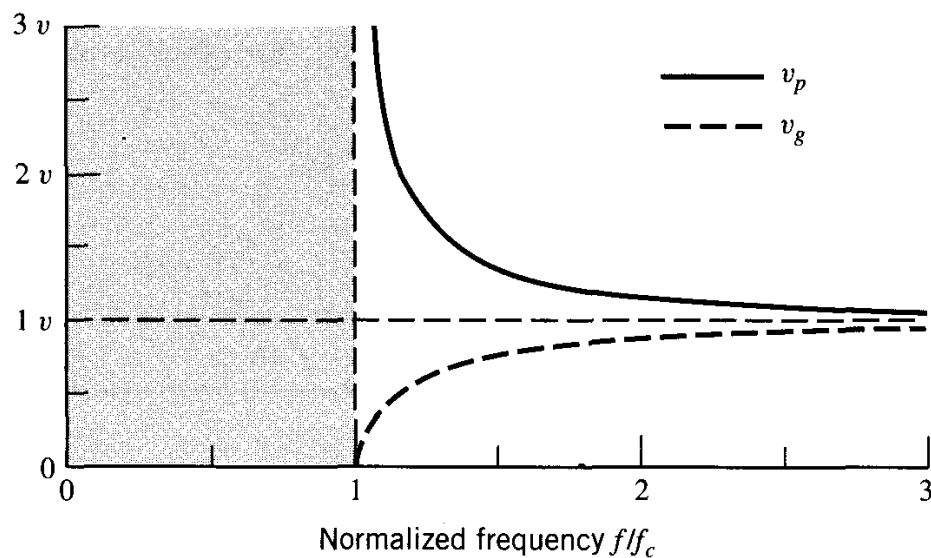


**Figure 8-9** Uniform plane wave representation of the TE<sub>10</sub> mode electric field inside a rectangular waveguide. (a) Two uniform plane waves. (b) Phase and group velocities.



**Figure 8-10** Phase and group (energy) velocities for the TE<sub>10</sub> mode in a rectangular waveguide.