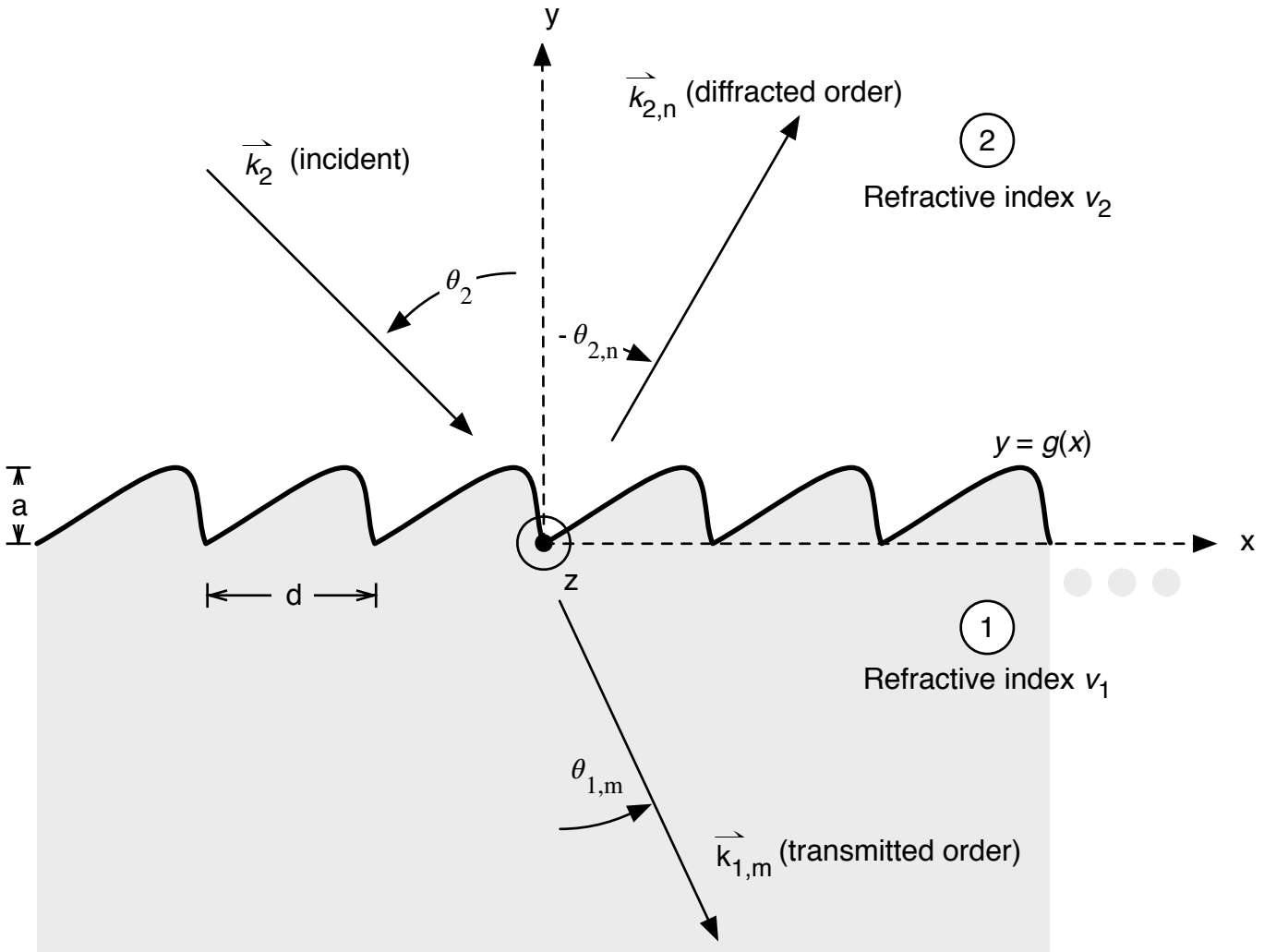

Wavevector: $\vec{k}_2 = v_2 \frac{\omega}{c} (\sin\theta_2 \, \hat{x} - \cos\theta_2 \, \hat{y} + 0 \, \hat{z}) \qquad k_2 = \left|\vec{k}_2\right| = v_2 \frac{\omega}{c}$

Electric field: $\vec{E}^{(2)} = \vec{A} \exp\left(i \vec{k}_2 \cdot \vec{r}\right) = \vec{A} \exp\left(i \, k_2 \, (x \sin\theta_2 - y \cos\theta_2)\right)$