$$\Delta z(z,x) = a(z)\sin x + z$$

$$a(z) = a_{max} \begin{cases} \frac{-\cos\frac{\pi z}{lt}+1}{2} & t \leq a \\ 1 & t < a < \frac{h}{l} - t \\ \frac{-\cos\frac{\pi z}{lt}+1}{2} & a \geq \frac{h}{l} - t \end{cases}$$

$$\{z | z = l \cdot n, 0 < n \leq \frac{h}{l}, n \in \mathbb{Z}\}$$

$$a_{max} \equiv \text{Max Amplitude}$$

$$t \equiv \text{Number of Transition Layers}$$

$$l \equiv \text{Layer Height}$$

$$h \equiv \text{Object Height}$$