



$$\phi = \frac{V}{F}$$

$$(1 - \phi) = \frac{L}{F}$$

$$x_i = \frac{z_i}{1 + \phi(K_i - 1)}$$

$$y_i = K_i x_i$$

$$0 = \sum_{i=1}^N \frac{(K_i - 1)z_i}{1 + \phi(K_i - 1)}$$