$$\overline{Z}_1 = \overline{Z}_1 - \overline{Z}_1^e$$
 $\overline{Z}_2 = \overline{Z}_2$ $\overline{Z}_3 = \overline{Z}_3 - \overline{Z}_3^e$ $\overline{V} = V - V^e$

$$\frac{\overline{Z}_{1} = \overline{Z}_{2}}{\overline{Z}_{2}} = 5m \left[C \left(\alpha_{1} \overline{Z}_{3} + \alpha_{2} \overline{Z}_{1} \right) - k \overline{Z}_{1} - b \overline{Z}_{2} \right]$$

$$\overline{Z}_{3} = \alpha_{3} \left[\overline{V} - R \overline{Z}_{3} \right] - \alpha_{4} \overline{Z}_{1}$$

$$a_1 = 2 Z_3^e$$
 $a_2 = 2(Z_3^e)^2$ $(\delta - Z_1)^3$

$$a_3 = \frac{1}{\lambda_0 + \lambda_1 e^{\alpha(z_1^2 - \delta)}} \qquad a_{H} = \frac{\alpha(z_1^2 - \delta)}{\lambda_0 + \lambda_1 e^{\alpha(z_1^2 - \delta)}}$$