

附錄六

接著將 $\{\bar{y}, a_1, a_2, b_1, b_2, c_1, c_2, K_1, K_2\} = \{5, 0, 0, 0, 0, 0, 0, 0, 0\}$ 代入前述四條方程式(即附錄二所示的那四條方程式)後，可以得到：

$$\frac{\partial \pi_1}{\partial x_1} = 3.7068 + 1.68178x_1 - 1.68178x_2 + 1.33324z_1 - 1.33324z_2 = 0 \text{ -----(4.27)}$$

$$\frac{\partial \pi_1}{\partial z_1} = -1.3857 + 1.33324x_1 - 1.33324x_2 + 2.02045z_1 - 2.02045z_2 = 0 \text{ -----(4.28)}$$

$$\frac{\partial \pi_2}{\partial x_2} = 0.164848 - 0.26081x_1 + 0.26081x_2 - 0.854287z_1 + 0.854287z_2 = 0 \text{ -----(4.29)}$$

$$\frac{\partial \pi_2}{\partial z_2} = -0.689201 - 0.854287x_1 + 0.854287x_2 - 0.416529z_1 + 0.416529z_2 = 0 \text{ -----(4.30)}$$

最後將 $\{\bar{y}, a_1, a_2, b_1, b_2, c_1, c_2, K_1, K_2\} = \{5, 0, 0, 0, 0, 0, 0, 0, 0\}$ 代入前述四條方程式後，並求聯立解，可得：

$$x_1^0 = 1.80144$$

$$x_2^0 = 1.80144$$

$$z_1^0 = 6.50439$$

$$z_2^0 = 6.50439$$

