ドーンブッシュ金十計算（短路）

$$\begin{cases} m - p_t = g_t - a i_t & \text{—(1)} \\ y_t = -b i_t + c(e_t + p^* - p_t) & \text{—(2)} \\ \Delta p_t = d(y_t - y^*) & \text{—(3)} \\ i_t = i^* + \underbrace{e_{t+1} - e_t}_{\Delta e_t} & \text{—(4)} \end{cases}$$

$$y_t = a i_t - p_t + m$$

$$-) \quad y_t = -b i_t + c(e_t + p^* - p_t)$$

$$0 = (a+b) i_t + (c-1) p_t - c e_t + m - c p^*$$

$$\Rightarrow i_t = \frac{1-c}{a+b} p_t + \frac{c}{a+b} e_t - \frac{1}{a+b} m + \frac{c}{a+b} p^*$$

よって、

$$y_t = \underbrace{\left(\frac{a(1-c)}{a+b} - 1 \right)}_{\frac{a-ac-a-b}{a+b}} p_t + \frac{ac}{a+b} e_t + \underbrace{\left(1 - \frac{a}{a+b}\right)}_{\frac{b}{a+b}} m + \frac{ac}{a+b} p^*$$

よって、

$$\Delta p_t = -d\frac{ac+b}{a+b}p_t + \frac{acd}{a+b}e_t + \frac{bd}{a+b}m + \frac{acd}{a+b}p^* - dy^*$$

$$\Delta e_t = i_t - i^*$$

$$= \frac{1-c}{a+b}p_t + \frac{c}{a+b}e_t - \frac{1}{a+b}m + \frac{c}{a+b}p^* - i^*$$

$$\begin{cases} e_{t+1} = \left(1+\frac{c}{a+b}\right)e_t + \frac{1-c}{a+b}p_t + c_2 \\ p_{t+1} = \frac{acd}{a+b}e_t + \left(1-d\frac{ac+b}{a+b}\right)p_t + c_1 \end{cases}$$

where $c_2 \equiv -\frac{1}{a+b}m + \frac{c}{a+b}p^* - i^*$

$$c_1 \equiv \frac{bd}{a+b}m + \frac{acd}{a+b}p^* - dy^*$$