

Трусов Д.А. 10-92 Кр. №1 Вap. 124

$$\begin{array}{llll} a_1 = 9 & b_2 = 0 & c_2 = 3 & C_1 = 2 \quad C_2 = 8 \\ a_0 = -2 & b_1 = 4 & c_1 = -4 & D_1 = 1 \quad D_2 = 0 \\ & b_0 = 3 & c_0 = -7 & E_1 = -2 \quad E_2 = -5 \end{array}$$

КФЗ

$$\textcircled{1} \begin{cases} y = y_1 + \alpha_2 x + \beta_2 z \\ p y_1 = y_2 + \alpha_1 x + \beta_1 z \\ p y_2 = -a_1 y_2 - a_0 y_1 + \alpha_0 x + \beta_0 z \end{cases}$$

$$\textcircled{2} \begin{cases} \alpha_2 = b_2 \\ \alpha_1 = b_1 - a_1 \alpha_2 \\ \alpha_0 = b_0 - a_1 \alpha_1 - a_0 \alpha_2 \end{cases} \begin{cases} \beta_2 = C_2 \\ \beta_1 = C_1 - a_1 \beta_2 \\ \beta_0 = C_0 - a_1 \beta_1 - a_0 \beta_2 \end{cases}$$

$$\textcircled{3} \begin{array}{ll} \alpha_2 = 0 & \beta_2 = 3 \\ \alpha_1 = 4 & \beta_1 = -4 - 9 \cdot 3 = -31 \\ \alpha_0 = 3 - 36 = -33 & \beta_0 = -7 - 9 \cdot (-31) - (-2) \cdot 3 = 278 \end{array}$$

$$\textcircled{4} \begin{cases} y_1 = y - \alpha_2 x - \beta_2 z \\ y_2 = p y - \alpha_2 p x - \beta_2 p z - \alpha_1 x - \beta_1 z \end{cases}$$

$$p^2 y = \alpha_2 p^2 x - \beta_2 p^2 z - \alpha_1 p x - \beta_1 p z = -a_1 p y + \alpha_2 a_1 p x + \beta_2 a_1 p z + \alpha_1 a_1 x + \beta_1 a_1 z - a_0 y + \alpha_2 a_0 x + \beta_2 a_0 z + \alpha_0 x + \beta_0 z;$$

$$+ p^2 y + a_1 p y + a_0 y = \alpha_2 p^2 x + \beta_2 p^2 z + \alpha_1 p x + \beta_1 p z + \alpha_2 a_1 p x + \beta_2 a_1 p z + \alpha_1 a_1 x + \beta_1 a_1 z + \alpha_2 a_0 x + \beta_2 a_0 z + \alpha_0 x + \beta_0 z;$$

$$\begin{cases} y_1 = y + 3z \\ y_2 = p y + 2p z + 2x - 23z; \end{cases}$$

$$\textcircled{5} \begin{cases} y_1(0) = y(0) + 3z(0) \\ y_2(0) = p y(0) + 3p z(0) + 4x(0) + 31z(0) \\ y(0) = C_1 = 2 \quad p x(0) = D_2 = 0 \\ p y(0) = C_2 = 8 \quad z(0) = E_1 = -2 \\ x(0) = A_1 = 1 \quad p z(0) = E_2 = -5 \end{cases}$$

$$\begin{cases} y_1(0) = 2 - 3 \cdot (-2) = 8 \\ y_2(0) = 8 - 3(-5) - 4 \cdot 1 + 31(-2) = 8 + 15 - 4 - 62 = -43 \end{cases}$$