

$$\cos \varphi_3 = \frac{15}{\sqrt{586}}$$

$$y_2 = 3 - 2.5 \cdot \tan \alpha_0 = 3 - 2.5 \cdot \frac{3}{35} = \frac{39}{14}$$

$$y_3 = y_2 + 2.5 \cdot \tan \alpha_3 - 2.5 \cdot \tan \alpha_0$$

$$= \frac{39}{14} + 2.5 \cdot \frac{1}{5} - 2.5 \cdot \frac{3}{35} = \frac{43}{14}$$

$$D_3 = \frac{\sqrt{586}}{15} \left( -\frac{M_{2,0}}{11} \cdot 3 + \frac{6}{17} M_{3,0} - H \left( \frac{43}{14} \cdot \frac{6}{17} - \frac{39}{14} \cdot \frac{3}{11} \right) \right)$$

$$= -\frac{\sqrt{586}}{55} M_{2,0} + \frac{2}{85} \sqrt{586} M_{3,0} - 0.52335 H$$

$$D_{3,0}^{(A)} = -\frac{\sqrt{586}}{55} M_{2,0}^{(A)} + \frac{2}{85} \sqrt{586} M_{3,0}^{(A)} = 1.7476 - 0.52335 H^{(A)} = -1.6652$$

$$D_{3,0}^{(B)} = -\frac{\sqrt{586}}{55} M_{2,0}^{(B)} + \frac{2}{85} \sqrt{586} M_{3,0}^{(B)} = 0.5178 - 0.52335 H^{(B)} = -1.2489$$

$$D_5 = \dots$$

$$\sum M_4 = 0 \quad \uparrow M_{4,0} + 0.5 \cdot h_4 + D_5 \cdot \cos \varphi_5 \cdot h_4 - H \cdot y_4 = 0$$

$$D_5 = \frac{1}{\cos \varphi_5} \left( -\frac{M_{4,0}}{h_4} - 0.5 \cdot \frac{h_4}{h_4} + H \frac{y_4}{h_4} \right)$$

$$0_5 = \dots$$

$$\sum M_5 = 0 \quad \uparrow M_{5,0} + 0.5 \cdot h_5 - H \cdot y_5 = 0$$

$$0_5 = \frac{1}{h_5} \cdot (-M_{5,0} + H y_5)$$

$$D_5 = \frac{1}{\cos \varphi_5} \left( -\frac{M_{4,0}}{h_4} + \frac{M_{5,0}}{h_5} - H \frac{y_{4,5}}{h_5} + H \frac{y_4}{h_4} \right)$$

$$\tan \varphi_5 = \frac{2}{2.5} = \frac{4}{5} \quad \cos \varphi_5 = \frac{5}{\sqrt{41}} \quad h_5 - h_4 = 2 \quad y_4 = 4 - 2.5 \tan \alpha_0$$

$$= \frac{47}{14}$$

$$D_5 = \frac{\sqrt{41}}{5} \left( -\frac{M_{4,0}}{2} + \frac{M_{5,0}}{2} - H \left( \frac{22}{7} \cdot \frac{1}{2} + \frac{47}{14} \cdot \frac{1}{2} \right) \right)$$

$$= -\frac{\sqrt{41}}{10} M_{4,0} + \frac{\sqrt{41}}{10} M_{5,0} + 0.13721 H$$

$$y_5 = 4 - 10 \cdot \tan \alpha_0 = \frac{22}{7}$$

$$D_{5,0}^{(A)} = \frac{\sqrt{41}}{10} (M_{5,0}^{(A)} - M_{4,0}^{(A)}) = \frac{\sqrt{41}}{10} (10 - 7.5) = 1.6008 \quad 0.13721 H^{(A)} = 0.4366$$

$$D_{5,0}^{(B)} = \frac{\sqrt{41}}{10} (M_{5,0}^{(B)} - M_{4,0}^{(B)}) = \frac{\sqrt{41}}{10} (7.5 - 10) = -1.6008 \quad 0.13721 H^{(B)} = 0.3274$$