



$$V_g + V_{B'} + H \cdot \tan \alpha_0 + U_g \cdot \sin \beta_g + U_{10} \sin \beta_{10} = 0$$

$$V_g = -V_{B'} - H \cdot \tan \alpha_0 - U_g \sin \beta_g - U_{10} \sin \beta_{10}$$

$$\tan \alpha_g = \frac{1}{1} \quad \sin \beta_g = \frac{1}{\sqrt{2}} \quad \sin \beta_{10} = \frac{1}{\sqrt{2}}$$

$$U_{10} = \dots \quad \sum M(19) = 0$$

$$M_{(19),0} - U_{10} \cdot \cos \beta_{10} \cdot h_g = 0$$

$$U_{10} = \sqrt{2} \left( \frac{M_{(19),0}}{11} \right) = \frac{\sqrt{2}}{11} M_{(19),0}$$

$$h_g = 11$$

$$\cos \beta_{10} = \frac{1}{\sqrt{2}}$$

$$V_g = -V_{B'} - H \cdot \frac{1}{8} - \sqrt{2} \left( \frac{M_{(19),0}}{11} \right) \cdot \frac{1}{\sqrt{2}} - \frac{\sqrt{2}}{11} M_{(19),0} \cdot \frac{1}{\sqrt{2}}$$

$$= -V_{B'} + \frac{7}{8} H - \frac{2}{11} M_{(19),0}$$

$$= -V_{B'} - \frac{2}{11} M_{(19),0} + \frac{7}{8} H$$

$$V_3 = -65$$

$$D_4 = \sqrt{2} \cdot \left( \frac{1}{5} (1125 - 1000) - \frac{1}{8} \cdot 80 \right) = 21,2132$$

$$D_5 = \sqrt{2} \left( \frac{1}{5} (1125 - 1000) + \frac{1}{8} \cdot 80 \right) = 49,497475$$

$$V_4 = \frac{1}{5} (1000 + 1000 - 2 \cdot 1125) = -50$$

$$O_8 = \frac{\sqrt{2}}{5} \left( -\frac{500}{515} + \frac{25}{22} \cdot 80 \right) = 0$$

$$D_8 = -\frac{\sqrt{3281}}{40} \left( -\frac{250}{7} + \frac{11}{2} \cdot 500 - \frac{45}{88} \cdot 80 \right) = -3828,276258$$

$$U_8 = \frac{\sqrt{5}}{114} \cdot \frac{M_{(8),0}}{16} - \frac{\sqrt{5} \cdot 134}{16} = -105,4146332$$

$$O_9 = -\frac{\sqrt{2}}{35} M_{(8),0} + \frac{\sqrt{2}}{8} H = 14,568663$$

$$D_9 = -\frac{\sqrt{3281}}{40 \cdot 11} \cdot 0 = 0$$

$$U_9 = -\sqrt{2} \cdot 80 = -113,1371$$

$$V_9 = -50 - \frac{2}{11} \cdot 0 + \frac{7}{8} \cdot 80 = -40$$