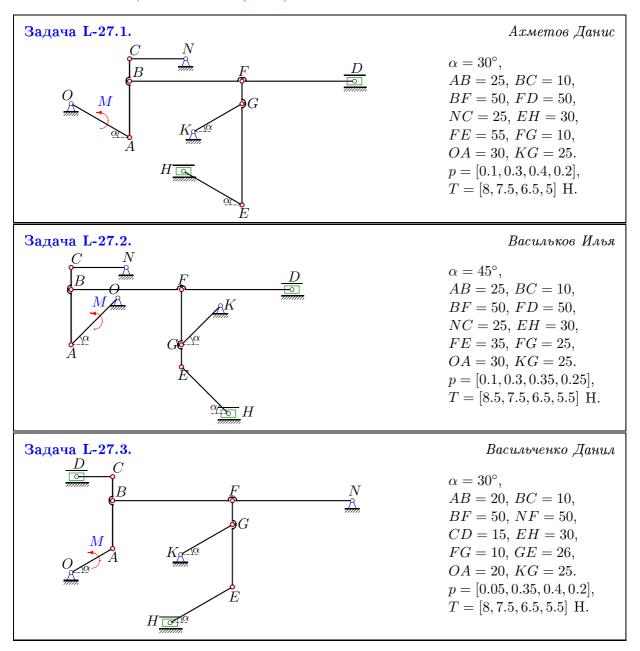
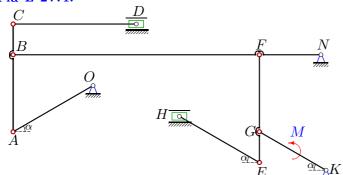
Условие равновесия механизма

Плоский многозвенный механизм с одной степенью свободы находится в равновесии. К кривошипу OA приложен момент M. Размеры даны в сантиметрах. Дан ряд p распределения дискретной случайной величины силы сопротивления в ползунах $T_i, i=1,...,4$. Найти математическое ожидание момента M.

 $Kupcanos\ M.H.$ Решебник. Теоретическая механика/Под ред. А. И. Кириллова.— М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)



Задача L-27.4.



Егоров Сергей

$$\alpha = 30^{\circ},$$

$$AB = 25, BC = 10,$$

$$BF = 80, NF = 20,$$

$$CD = 40, EH = 30,$$

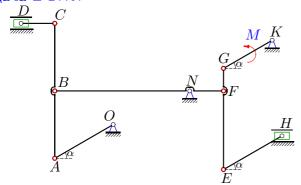
$$FG = 25, GE = 10,$$

$$OA = 30, KG = 25.$$

$$p = [0.1, 0.3, 0.4, 0.2],$$

$$T = [8, 7.5, 6.5, 5] \text{ H}.$$

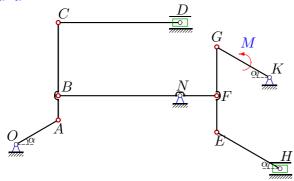
Задача L-27.5.



Жуков Андрей

$$\begin{split} &\alpha=30^{\circ},\\ &AB=30,\,BC=30,\\ &NB=60,\,NF=15,\\ &CD=15,\,EH=30,\\ &FE=35,\,FG=10,\\ &OA=30,\,KG=25.\\ &p=[0.05,0.35,0.35,0.25],\\ &T=[8.5,7.5,6.5,5]~\mathrm{H}. \end{split}$$

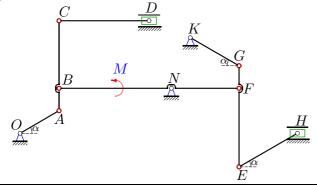
Задача L-27.6.



Иванова Дарья

$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 10, \, BC = 30, \\ &NB = 50, \, NF = 15, \\ &CD = 50, \, EH = 30, \\ &FE = 15, \, FG = 20, \\ &OA = 20, \, KG = 25. \\ &p = [0.05, 0.35, 0.35, 0.25], \\ &T = [8.5, 7, 6, 5.5] \, \, \mathrm{H}. \end{split}$$

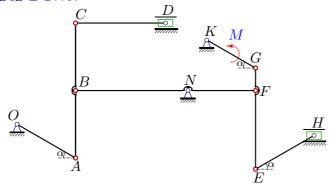
Задача L-27.7.



Компанеец Кирилл

$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 10, \ BC = 30, \\ &NB = 50, \ NF = 30, \\ &CD = 40, \ EH = 30, \\ &FE = 35, \ FG = 10, \\ &OA = 20, \ KG = 25. \\ &p = [0.05, 0.35, 0.4, 0.2], \\ &T = [8, 7, 6.5, 5.5] \ \mathrm{H}. \end{split}$$

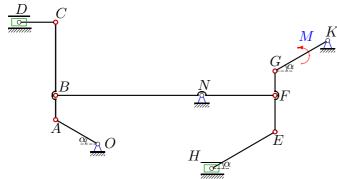
Задача L-27.8.



Овчаренко Ульяна

$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 30, \, BC = 30, \\ &NB = 50, \, NF = 30, \\ &CD = 40, \, EH = 30, \\ &FE = 35, \, FG = 10, \\ &OA = 30, \, KG = 25. \\ &p = [0.05, 0.35, 0.4, 0.2], \\ &T = [8, 7, 6.5, 5.5] \,\, \mathrm{H}. \end{split}$$

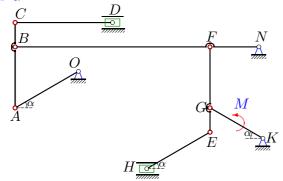
Задача L-27.9.



Петриченко Елизавета

$$\begin{split} &\alpha=30^{\circ},\\ &AB=10,\,BC=30,\\ &NB=60,\,NF=30,\\ &CD=15,\,EH=30,\\ &FE=15,\,FG=10,\\ &OA=20,\,KG=25.\\ &p=[0.05,0.35,0.4,0.2],\\ &T=[8,7.5,6,5.5]~\mathrm{H}. \end{split}$$

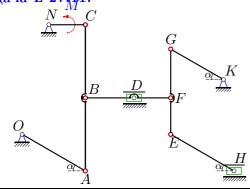
Задача L-27.10.



Разананирина Ранди

$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 25, \, BC = 10, \\ &BF = 80, \, NF = 20, \\ &CD = 40, \, EH = 30, \\ &FG = 25, \, GE = 10, \\ &OA = 30, \, KG = 25. \\ &p = [0.1, 0.3, 0.4, 0.2], \\ &T = [8, 7, 6.5, 5] \, \, \mathrm{H}. \end{split}$$

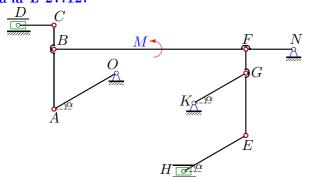
Задача L-27_M1.



Скулова Полина

$$\begin{split} &\alpha=30^{\circ},\\ &AB=30,\ BC=30,\\ &DB=20,\ DF=15,\\ &NC=15,\ EH=30,\\ &FE=15,\ FG=20,\\ &OA=30,\ KG=25.\\ &p=[0.1,0.3,0.35,0.25],\\ &T=[8.5,7,6,5]\ \mathrm{H}. \end{split}$$

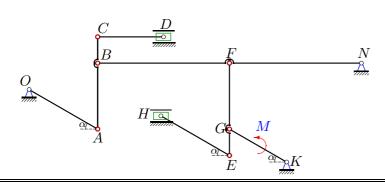
Задача L-27.12.



Широков Александр

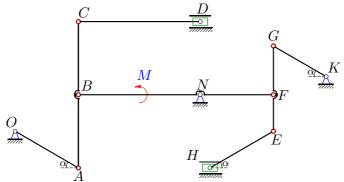
$$\begin{split} &\alpha=30^{\circ},\\ &AB=25,\,BC=10,\\ &BF=80,\,NF=20,\\ &CD=15,\,EH=30,\\ &FG=10,\,GE=26,\\ &OA=30,\,KG=25.\\ &p=[0.1,0.3,0.4,0.2],\\ &T=[8,7.5,6,5]~\mathrm{H}. \end{split}$$

Задача L-27.13.



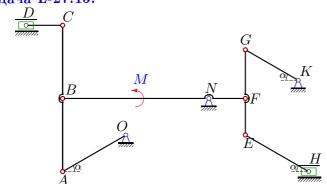
$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 25, \, BC = 10, \\ &BF = 50, \, NF = 50, \\ &CD = 25, \, EH = 30, \\ &FG = 25, \, GE = 10, \\ &OA = 30, \, KG = 25, \\ &p = [0.05, 0.35, 0.4, 0.2], \\ &T = [8, 7, 6, 5] \, \text{H}. \end{split}$$

Задача L-27.14.



$$\begin{split} &\alpha = 30^{\circ}, \\ &AB = 30, \, BC = 30, \\ &NB = 50, \, NF = 30, \\ &CD = 50, \, EH = 30, \\ &FE = 15, \, FG = 20, \\ &OA = 30, \, KG = 25. \\ &p = [0.05, 0.35, 0.35, 0.25], \\ &T = [8.5, 7, 6.5, 5.5] \, \, \mathrm{H}. \end{split}$$

Задача L-27.15.



$$\begin{split} \alpha &= 30^{\circ}, \\ AB &= 30, \, BC = 30, \\ NB &= 60, \, NF = 15, \\ CD &= 15, \, EH = 30, \\ FE &= 15, \, FG = 20, \\ OA &= 30, \, KG = 25. \\ p &= [0.1, 0.3, 0.4, 0.2], \\ T &= [8, 7, 6, 5] \, \, \mathrm{H}. \end{split}$$