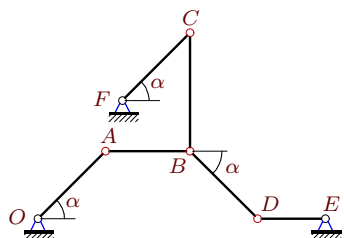


Механизм с двумя степенями свободы

В указанном положении механизма заданы угловые скорости двух его звеньев (с^{-1}). Длины звеньев даны в сантиметрах, $\alpha = 45^\circ$. Стержни, направление которых не указано, считать горизонтальными или вертикальными. Найти угловые скорости всех звеньев механизма.

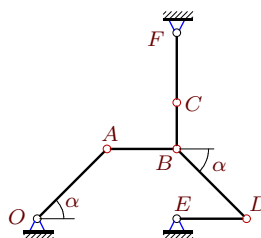
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова. – М.: ФИЗМАТЛИТ, 2008. — 384 с. (с.158.)

Задача К-25.1. Алимов Шамиль Маратович



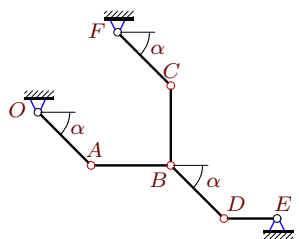
$\omega_{OA_z} = 35$, $\omega_{CF_z} = 70$, $AB = 5$, $BC = 7$,
 $DE = 4$, $OA = CF = BD = 4\sqrt{2}$.

Задача К-25.2. Берсенева Анастасия Юрьевна



$\omega_{CF_z} = -3$, $\omega_{DE_z} = -1$, $AB = 3$, $BC = 2$,
 $DE = 3$, $CF = 3$, $OA = BD = 3\sqrt{2}$.

Задача К-25.3. Богатых Ольга Юрьевна

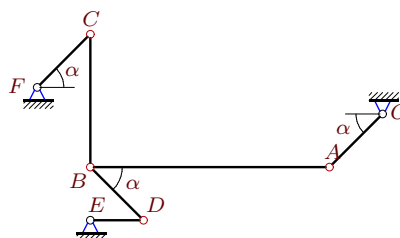


$\omega_{OA_z} = -3$, $\omega_{DE_z} = -6$, $AB = BC = 3$, $DE = 2$,
 $OA = CF = BD = 2\sqrt{2}$.

Задача К-25.4.

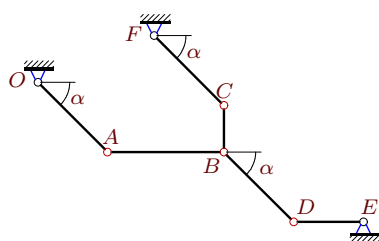
Константинович

Войтов Марк



$\omega_{CF_z} = 18$, $\omega_{DE_z} = -9$, $AB = 9$, $BC = 5$,
 $DE = 2$, $OA = CF = BD = 2\sqrt{2}$.

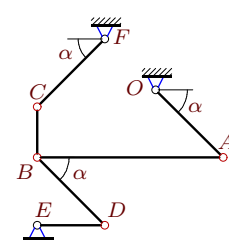
Задача К-25.5. Грабчинская Екатерина Владимировна



$\omega_{CF_z} = -20$, $\omega_{DE_z} = 10$, $AB = 5$, $BC = 2$,
 $DE = 3$, $OA = CF = BD = 3\sqrt{2}$.

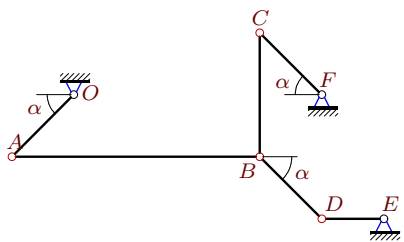
Задача К-25.6.

Дугин Антон Дмитриевич



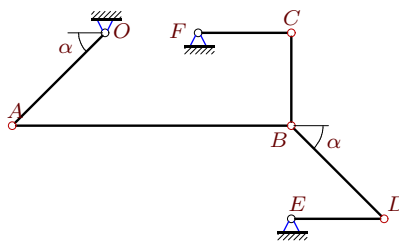
$\omega_{OA_z} = 33$, $\omega_{CF_z} = -99$, $AB = 11$, $BC = 3$,
 $DE = 4$, $OA = CF = BD = 4\sqrt{2}$.

Задача К-25.7. Елизарова Ксения Николаевна



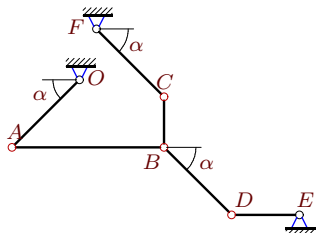
$$\omega_{OA_z} = 4, \omega_{DE_z} = -12, AB = 8, BC = 4, DE = 2, OA = CF = BD = 2\sqrt{2}.$$

Задача К-25.8. Ефименко Яна Эдуардовна



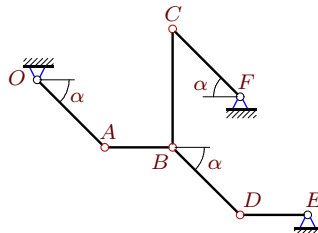
$$\omega_{OA_z} = -3, \omega_{CF_z} = 6, AB = 6, BC = 2, DE = 2, CF = 2, OA = BD = 2\sqrt{2}.$$

Задача К-25.9. Котов Андрей Александрович



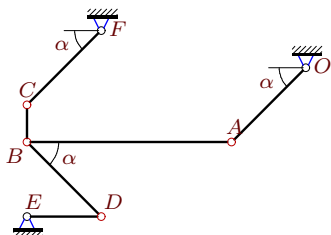
$$\omega_{OA_z} = \omega_{DE_z} = -9, AB = 9, BC = 3, DE = 4, OA = CF = BD = 4\sqrt{2}.$$

Задача К-25.10. Кравчук Ольга Андреевна



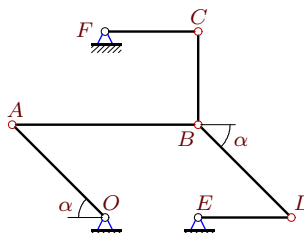
$$\omega_{OA_z} = 7, \omega_{DE_z} = -14, AB = 4, BC = 7, DE = 4, OA = CF = BD = 4\sqrt{2}.$$

Задача К-25.11. Левин Глеб Кириллович



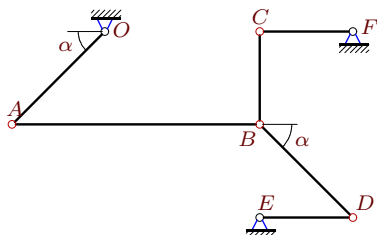
$$\omega_{OA_z} = \omega_{CF_z} = 1, AB = 11, BC = 2, DE = 4, OA = CF = BD = 4\sqrt{2}.$$

Задача К-25.12. Лысина Екатерина Александровна



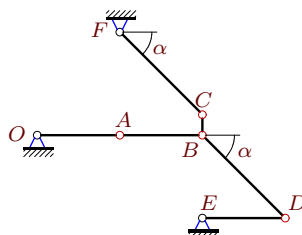
$$\omega_{OA_z} = \omega_{CF_z} = -1, AB = 8, BC = 4, DE = 4, CF = 4, OA = BD = 4\sqrt{2}.$$

Задача К-25.13. Маралкина Евгения Павловна



$$\omega_{OA_z} = 8, \omega_{DE_z} = -8, AB = 8, BC = 3, DE = 3, CF = 3, OA = BD = 3\sqrt{2}.$$

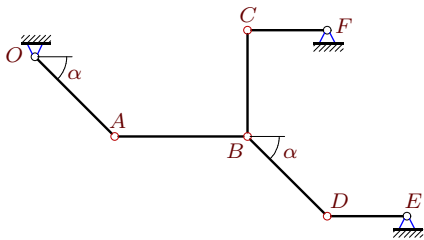
Задача К-25.14. Новов Александр Александрович



$$\omega_{OA_z} = \omega_{CF_z} = -1, AB = 4, BC = 1, DE = 4, OA = 4, CF = BD = 4\sqrt{2}.$$

Задача К-25.15.

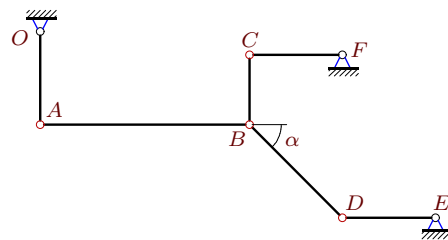
Павич Иван Анте



$$\omega_{OA_z} = 20, \omega_{DE_z} = -40, AB = 5, BC = 4, DE = 3, CF = 3, OA = BD = 3\sqrt{2}.$$

Задача К-25.16.

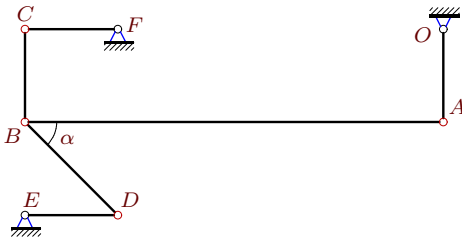
Сонин Андрей Анатольевич



$$\omega_{CF_z} = -18, \omega_{DE_z} = 9, AB = 9, BC = 3, DE = 4, OA = 4, CF = 4, BD = 4\sqrt{2}.$$

Задача К-25.17.

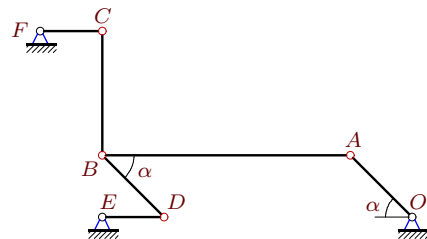
Тугарина Дарья Олеговна



$$\omega_{OA_z} = -9, \omega_{DE_z} = 27, AB = 9, BC = 2, DE = 2, OA = 2, CF = 2, BD = 2\sqrt{2}.$$

Задача К-25.18.

Хромов Дмитрий Александрович

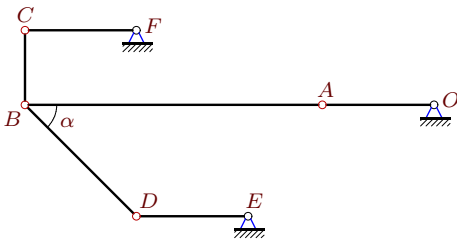


$$\omega_{OA_z} = 4, \omega_{DE_z} = 12, AB = 8, BC = 4, DE = 2, CF = 2, OA = BD = 2\sqrt{2}.$$

Задача К-25.19.

Евгеньевич

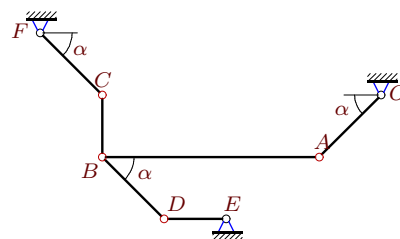
Чудаков Александр



$$\omega_{OA_z} = \omega_{CF_z} = 1, AB = 8, BC = 2, DE = 3, OA = 3, CF = 3, BD = 3\sqrt{2}.$$

Задача К-25.20.

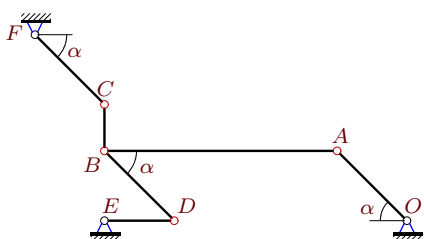
Зуйков Игорь



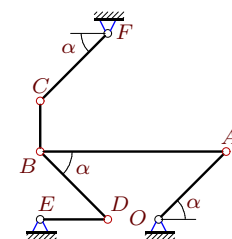
$$\omega_{OA_z} = -1, \omega_{CF_z} = 1, AB = 7, BC = 2, DE = 2, OA = CF = BD = 2\sqrt{2}.$$

Задача К-25.21.

Ермаков Владимир

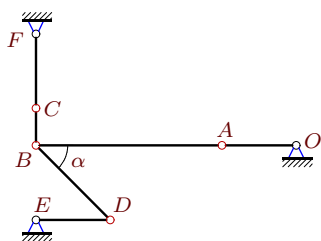


$$\omega_{OA_z} = 5, \omega_{DE_z} = -10, AB = 10, BC = 2, DE = 3, OA = CF = BD = 3\sqrt{2}.$$

Задача К-25.22.

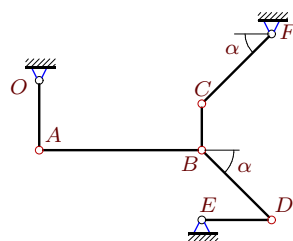
$$\omega_{OA_z} = -33, \omega_{DE_z} = 99, AB = 11, BC = 3, DE = 4, OA = CF = BD = 4\sqrt{2}.$$

Задача К-25.23.



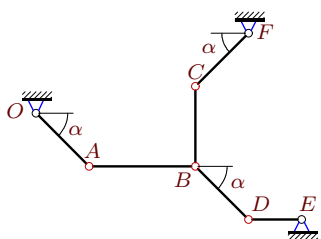
$\omega_{OA_z} = 5$, $\omega_{CF_z} = -5$, $AB = 10$, $BC = 2$,
 $DE = 4$, $OA = 4$, $CF = 4$, $BD = 4\sqrt{2}$.

Задача К-25.24.



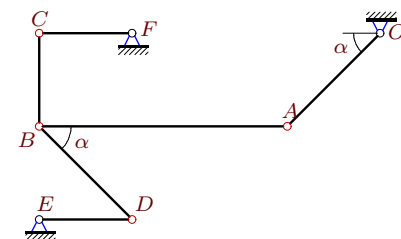
$\omega_{OA_z} = 14$, $\omega_{DE_z} = 42$, $AB = 7$, $BC = 2$,
 $DE = 3$, $OA = 3$, $CF = BD = 3\sqrt{2}$.

Задача К-25.25.



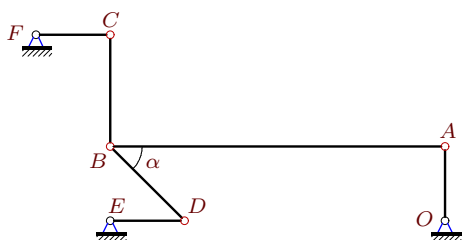
$\omega_{OA_z} = 3$, $\omega_{CF_z} = -9$, $AB = 4$, $BC = 3$,
 $DE = 2$, $OA = CF = BD = 2\sqrt{2}$.

Задача К-25.26.



$\omega_{OA_z} = \omega_{DE_z} = -8$, $AB = 8$, $BC = 3$,
 $DE = 3$, $CF = 3$, $OA = BD = 3\sqrt{2}$.

Задача К-25.27.



$\omega_{OA_z} = \omega_{DE_z} = 3$, $AB = 9$, $BC = 3$,
 $DE = 2$, $OA = 2$, $CF = 2$, $BD = 2\sqrt{2}$.