

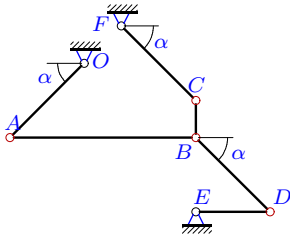
Механизм с двумя степенями свободы

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

Задача К-25.1.

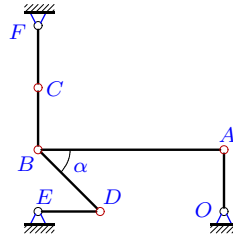
Белоненко Данила



$$\omega_{OA_z} = -1, \omega_{CF_z} = 1, AB = 10, BC = 2, DE = 4, OA = CF = BD = 4\sqrt{2}.$$

Задача К-25.2.

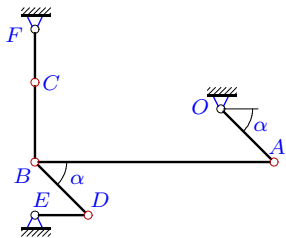
Богданович Михаил



$$\omega_{OA_z} = 1, \omega_{CF_z} = 2, AB = 9, BC = 3, DE = 3, OA = 3, CF = 3, BD = 3\sqrt{2}.$$

Задача К-25.3.

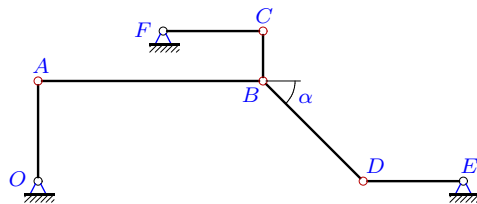
Бокарева Анастасия



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

Задача К-25.4.

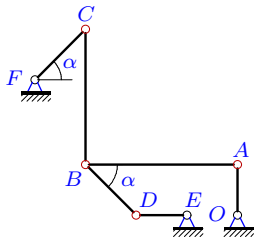
Воронова Екатерина



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

Задача К-25.5.

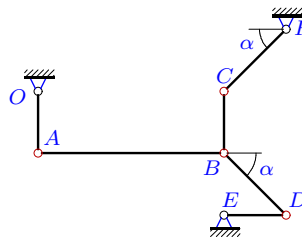
Григорьев Михаил



$$\omega_{OA_z} = -2, \omega_{CF_z} = 6, AB = 9, BC = 8, DE = 3, OA = 3, CF = BD = 3\sqrt{2}.$$

Задача К-25.6.

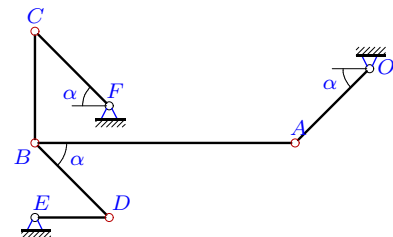
Журавлев Илья



$$\omega_{OA_z} = 3, \omega_{DE_z} = -9, AB = 6, BC = 2, DE = 2, OA = 2, CF = BD = 2\sqrt{2}.$$

Задача К-25.7.

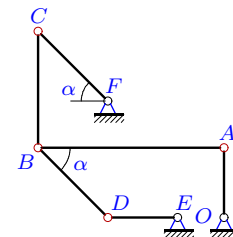
Камаева Элина



$$\omega_{OA_z} = -21, \omega_{DE_z} = -42, AB = 7, BC = 3, DE = 2, OA = CF = BD = 2\sqrt{2}.$$

Задача К-25.8.

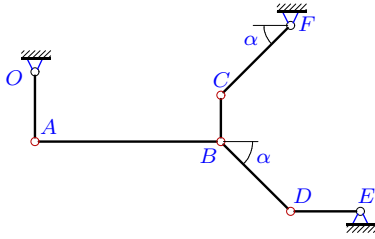
Козлов Анатолий



$$\omega_{CF_z} = 40, \omega_{DE_z} = 20, AB = 8, BC = 5, DE = 3, OA = 3, CF = BD = 3\sqrt{2}.$$

Задача К-25.9.

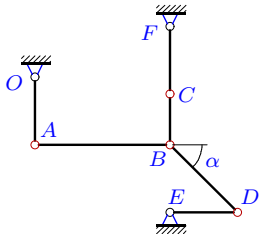
Корляков Андрей



$\omega_{CF_z} = 24, \omega_{DE_z} = 8, AB = 8, BC = 2,$
 $DE = 3, OA = 3, CF = BD = 3\sqrt{2}.$

Задача К-25.11.

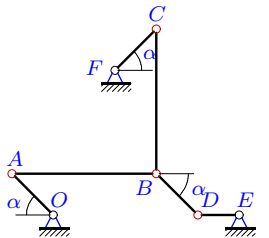
Мацко Ксения



$\omega_{OA_z} = -3, \omega_{CF_z} = -9, AB = 8, BC = 3,$
 $DE = 4, OA = 4, CF = 4, BD = 4\sqrt{2}.$

Задача К-25.13.

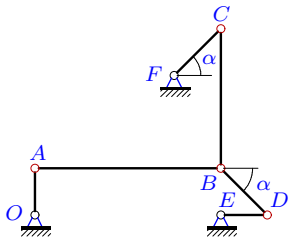
Новиков Алексей



$\omega_{OA_z} = 7, \omega_{CF_z} = -21, AB = BC = 7, DE = 2,$
 $OA = CF = BD = 2\sqrt{2}.$

Задача К-25.15.

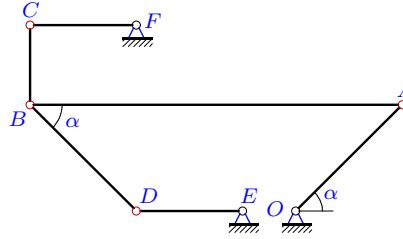
Оралбеков Кирилл



$\omega_{OA_z} = -3, \omega_{DE_z} = 9, AB = 8, BC = 6,$
 $DE = 2, OA = 2, CF = BD = 2\sqrt{2}.$

Задача К-25.10.

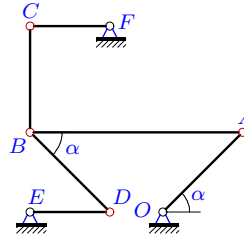
Манаенков Кирилл



$\omega_{CF_z} = 42, \omega_{DE_z} = 21, AB = 14, BC = 3,$
 $DE = 4, CF = 4, OA = BD = 4\sqrt{2}.$

Задача К-25.12.

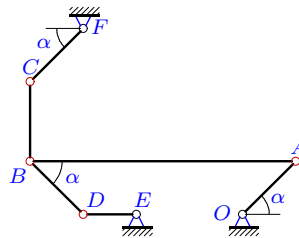
Моисеева Анастасия



$\omega_{OA_z} = -8, \omega_{DE_z} = -24, AB = 8, BC = 4,$
 $DE = 3, CF = 3, OA = BD = 3\sqrt{2}.$

Задача К-25.14.

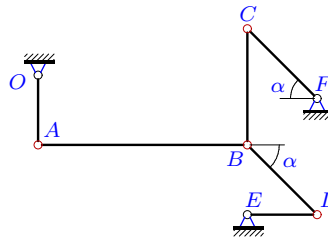
Овчинников Егор



$\omega_{OA_z} = -15, \omega_{DE_z} = -30, AB = 10, BC = 3,$
 $DE = 2, OA = CF = BD = 2\sqrt{2}.$

Задача К-25.16.

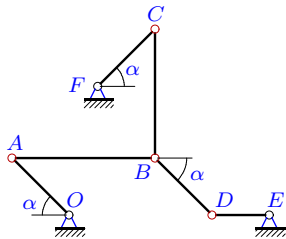
Палагицкий Сергей



$\omega_{OA_z} = 5, \omega_{DE_z} = 10, AB = 9, BC = 5,$
 $DE = 3, OA = 3, CF = BD = 3\sqrt{2}.$

Задача К-25.17.

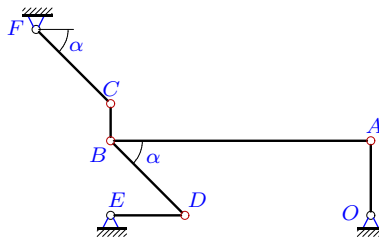
Пушкина Мария



$\omega_{CF_z} = 45, \omega_{DE_z} = -45, AB = 10, BC = 9,$
 $DE = 4, OA = CF = BD = 4\sqrt{2}.$

Задача К-25.18.

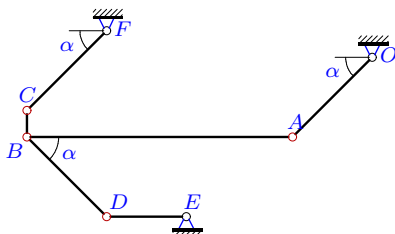
Раздобарин Борис



$\omega_{OA_z} = 7, \omega_{DE_z} = 21, AB = 7, BC = 1,$
 $DE = 2, OA = 2, CF = BD = 2\sqrt{2}.$

Задача К-25.19.

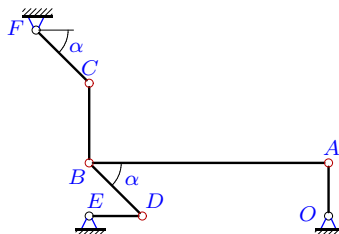
Серый Александр



$\omega_{OA_z} = -5, \omega_{CF_z} = 15, AB = 10, BC = 1,$
 $DE = 3, OA = CF = BD = 3\sqrt{2}.$

Задача К-25.20.

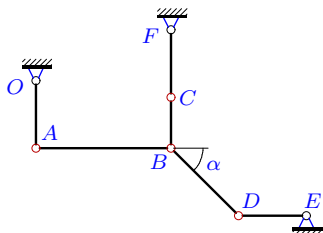
Соловьев Роман



$\omega_{OA_z} = 3, \omega_{DE_z} = -6, AB = 9, BC = 3,$
 $DE = 2, OA = 2, CF = BD = 2\sqrt{2}.$

Задача К-25.21.

Шилина Елизавета



$\omega_{OA_z} = 3, \omega_{CF_z} = 9, AB = 8, BC = 3,$
 $DE = 4, OA = 4, CF = 4, BD = 4\sqrt{2}.$