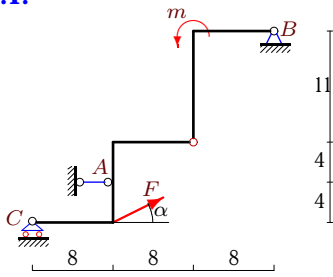


Простая составная конструкция

Определить реакции опор конструкции (в кН), состоящей из двух тел.

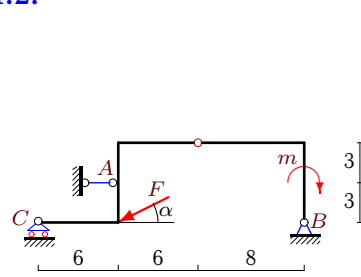
Кирсанов М.Н. **Решebник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.67.)

Задача 24.1.



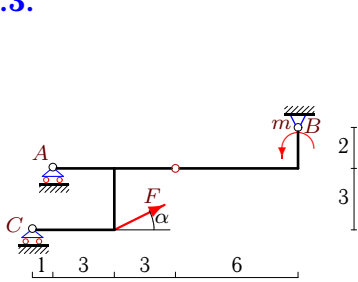
$$F = 60 \text{ кН}, m = 60 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.2.



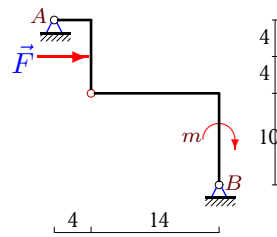
$$F = 80 \text{ кН}, m = 160 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.3.



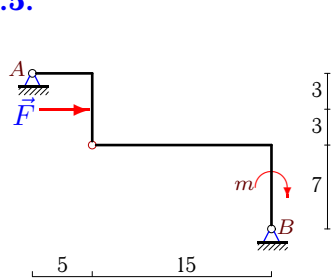
$$F = 30 \text{ кН}, m = 30 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.4.



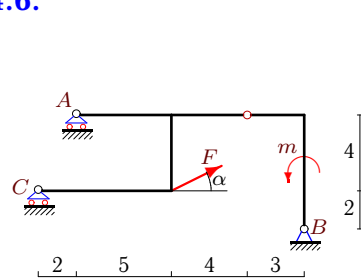
$$F = 1 \text{ кН}, m = 4 \text{ кНм}.$$

Задача 24.5.



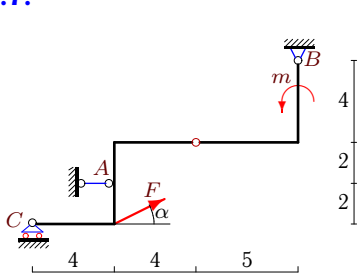
$$F = 30 \text{ кН}, m = 5 \text{ кНм}.$$

Задача 24.6.



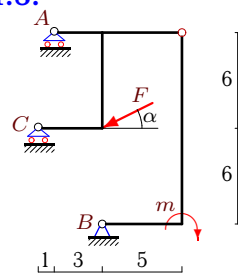
$$F = 30 \text{ кН}, m = 60 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.7.



$$F = 55 \text{ кН}, m = 110 \text{ кНм}, \cos \alpha = 0.8.$$

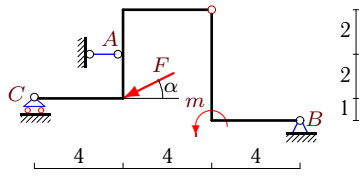
Задача 24.8.



$$F = 25 \text{ кН}, m = 25 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.9.

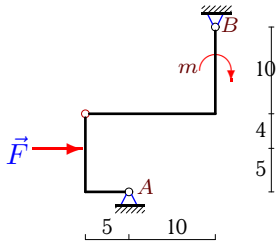
6



$F = 15 \text{ кН}, m = 30 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.11.

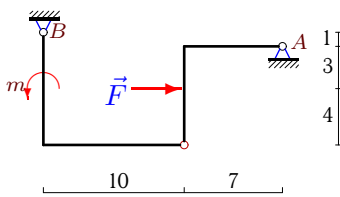
6



$F = 12 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.13.

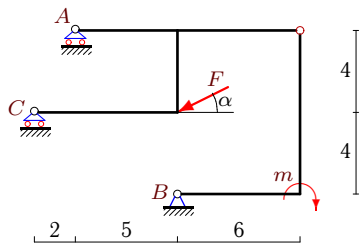
6



$F = 14 \text{ кН}, m = 6 \text{ кНМ}.$

Задача 24.15.

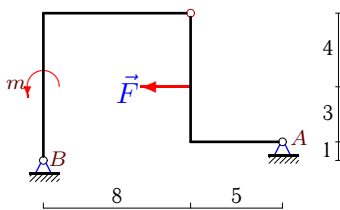
6



$F = 15 \text{ кН}, m = 30 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.17.

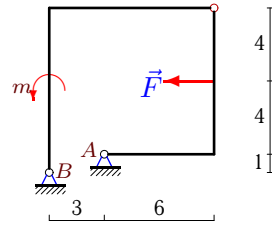
6



$F = 5 \text{ кН}, m = 24 \text{ кНМ}.$

Задача 24.10.

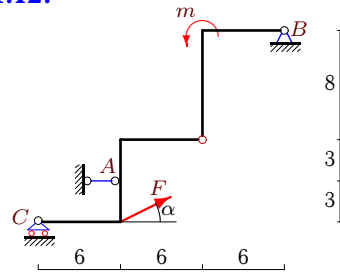
6



$F = 5 \text{ кН}, m = 9 \text{ кНМ}.$

Задача 24.12.

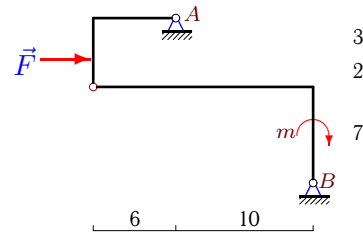
6



$F = 65 \text{ кН}, m = 130 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.14.

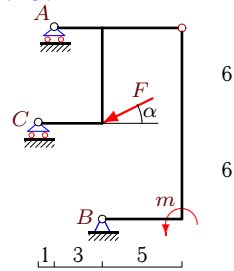
6



$F = 23 \text{ кН}, m = 1 \text{ кНМ}.$

Задача 24.16.

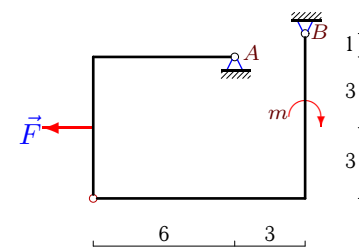
6



$F = 25 \text{ кН}, m = 25 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.18.

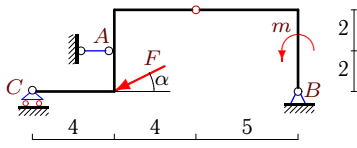
6



$F = 2 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.19.

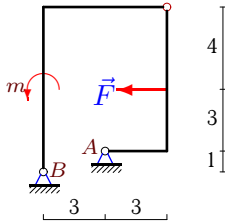
6



$F = 35 \text{ кН}, m = 70 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.21.

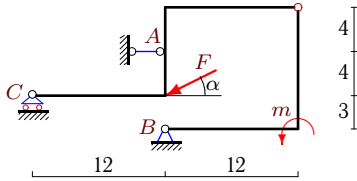
6



$F = 5 \text{ кН}, m = 6 \text{ кНМ}.$

Задача 24.23.

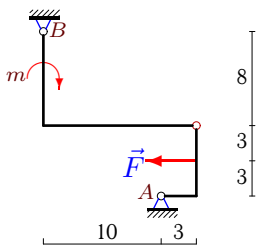
6



$F = 45 \text{ кН}, m = 45 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.25.

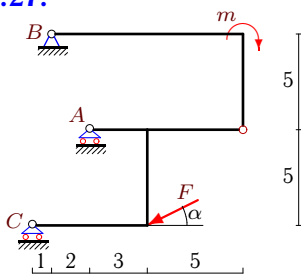
6



$F = 3 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.27.

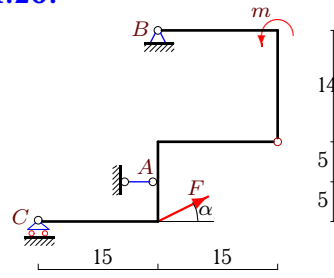
6



$F = 30 \text{ кН}, m = 30 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.20.

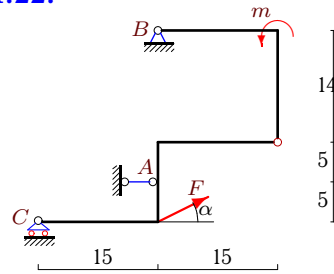
6



$F = 165 \text{ кН}, m = 165 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.22.

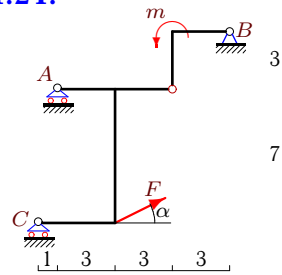
6



$F = 165 \text{ кН}, m = 165 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.24.

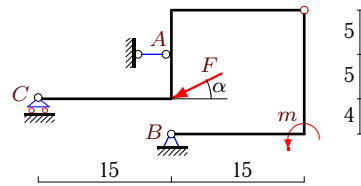
6



$F = 15 \text{ кН}, m = 15 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.26.

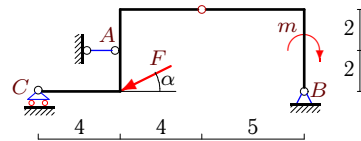
6



$F = 345 \text{ кН}, m = 690 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.28.

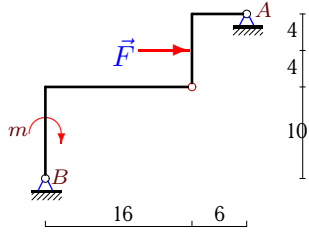
6



$F = 35 \text{ кН}, m = 35 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.29.

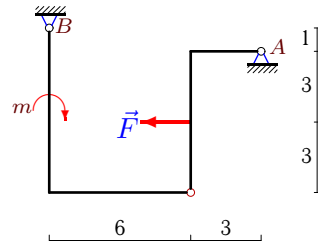
6



$F = 6 \text{ кН}, m = 4 \text{ кНм}.$

Задача 24.30.

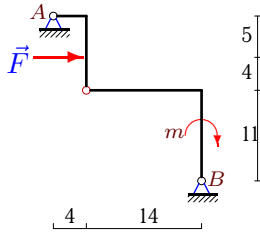
6



$F = 4 \text{ кН}, m = 5 \text{ кНм}.$

Задача 24.31.

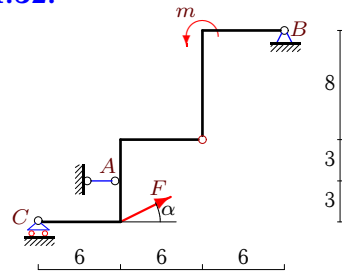
6



$F = 29 \text{ кН}, m = 5 \text{ кНм}.$

Задача 24.32.

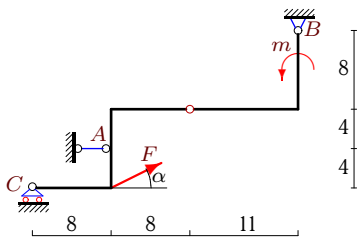
6



$F = 65 \text{ кН}, m = 130 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.33.

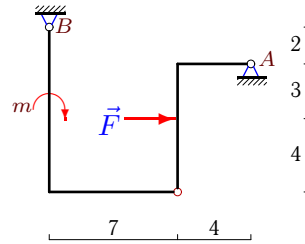
6



$F = 35 \text{ кН}, m = 35 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.34.

6



$F = 32 \text{ кН}, m = 2 \text{ кНм}.$

Простая составная конструкция

	X_A	Y_A	X_B	Y_B	Y_C	M_B
1	-28	-	-20	-35	-1	-
2	84	-	-20	35	13	-
3	-	-53	-24	-13	48	-
4	0	-1	-1	1	-	-
5	-5	-12	-25	12	-	-
6	-	-265	-24	28	219	-
7	-34	-	-10	-30	-3	-
8	-	-207	20	43	179	-
9	22	-	-10	5	4	-
10	-8	-14	13	14	-	-
11	-7	3	-5	-3	-	-
12	-42	-	-10	-35	-4	-
13	-11	-3	-3	3	-	-
14	-14	-4	-9	4	-	-
15	-	-16	12	11	14	-
16	-	-297	20	53	259	-
17	5	-3	0	3	-	-
18	-5	-6	7	6	-	-
19	58	-	-30	10	11	-
20	-207	-	75	-59	-40	-
21	-1	-9	6	9	-	-
22	-207	-	75	-59	-40	-
23	15	-	21	23	4	-
24	-	-1	-12	-17	9	-
25	2	1	1	-1	-	-
26	141	-	135	172	35	-
27	-	131	24	-15	-98	-
28	38	-	-10	15	6	-
29	0	4	-6	-4	-	-
30	3	2	1	-2	-	-
31	-4	-20	-25	20	-	-
32	-42	-	-10	-35	-4	-
33	2	-	-30	-25	4	-
34	-24	-10	-8	10	-	-