

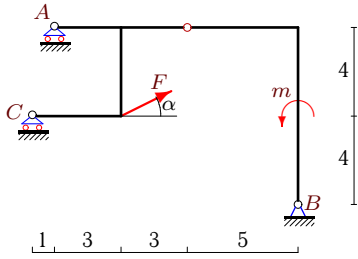
Простая составная конструкция

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.

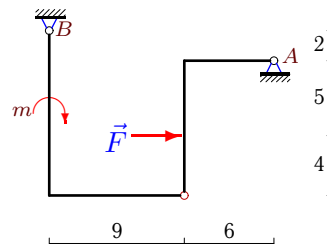
5



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

Задача 24.2.

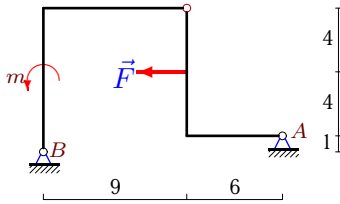
5



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

Задача 24.3.

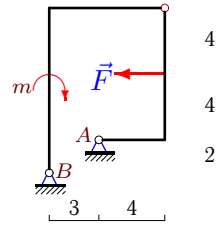
5



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

Задача 24.4.

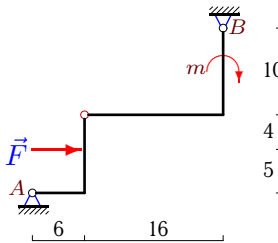
5



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

Задача 24.5.

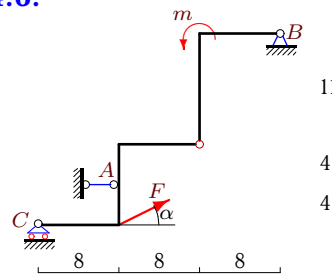
5



$$F = 36 \text{ кН}, m = 4 \text{ кНм}.$$

Задача 24.6.

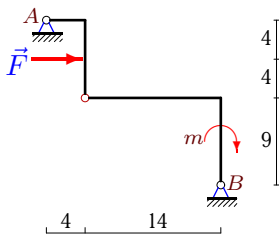
5



$$F = 45 \text{ кН}, m = 90 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.7.

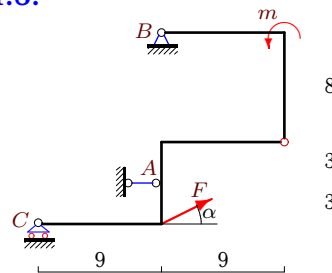
5



$$F = 1 \text{ кН}, m = 5 \text{ кНм}.$$

Задача 24.8.

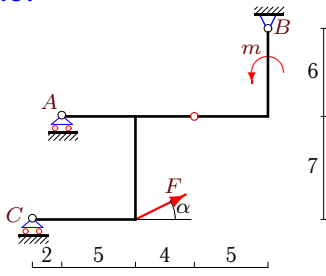
5



$$F = 95 \text{ кН}, m = 95 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.9.

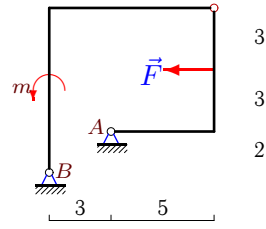
5



$F = 50 \text{ кН}, m = 100 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.10.

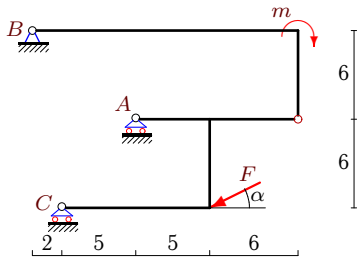
5



$F = 5 \text{ кН}, m = 8 \text{ кНМ}.$

Задача 24.11.

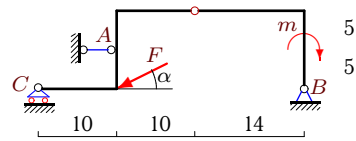
5



$F = 225 \text{ кН}, m = 450 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.12.

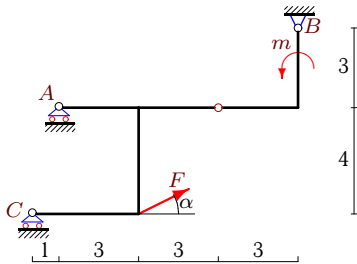
5



$F = 135 \text{ кН}, m = 270 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.13.

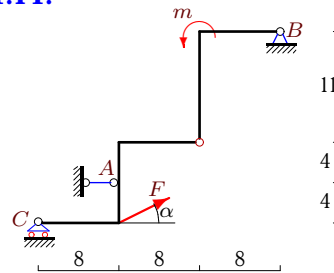
5



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

Задача 24.14.

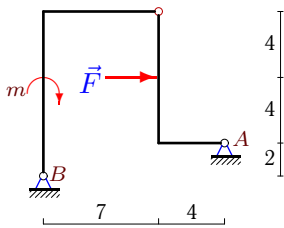
5



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

Задача 24.15.

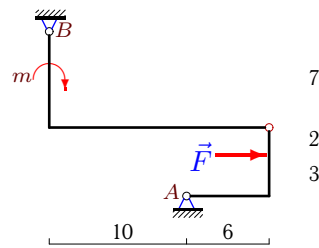
5



$F = 11 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.16.

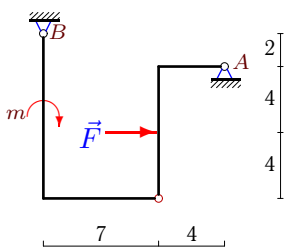
5



$F = 7 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.17.

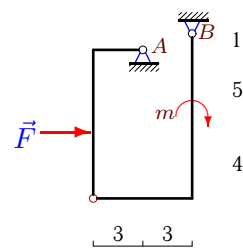
5



$F = 13 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.18.

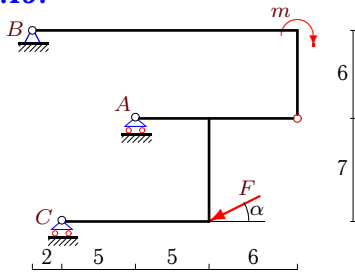
5



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

Задача 24.19.

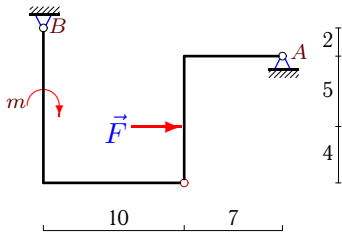
5



$F = 225 \text{ кН}, m = 450 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.21.

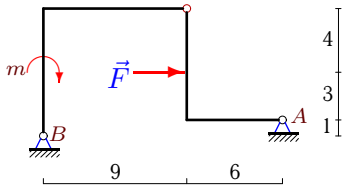
5



$F = 16 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.23.

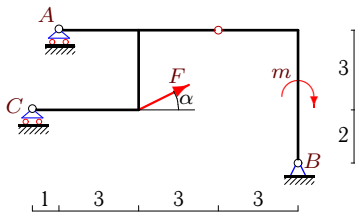
5



$F = 13 \text{ кН}, m = 3 \text{ кНМ}.$

Задача 24.25.

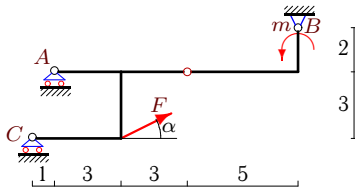
5



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

Задача 24.27.

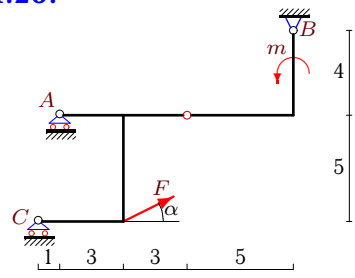
5



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

Задача 24.20.

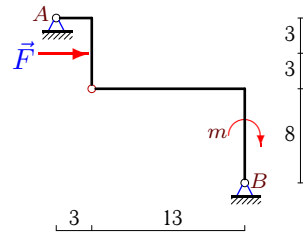
5



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

Задача 24.22.

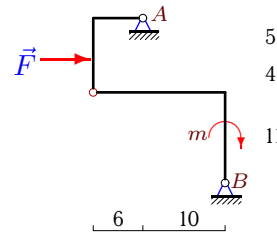
5



$F = 1 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.24.

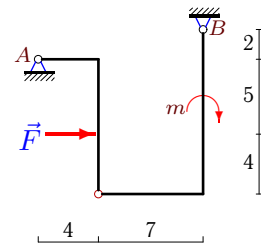
5



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

Задача 24.26.

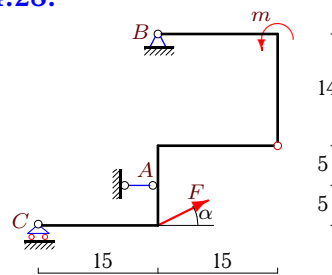
5



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

Задача 24.28.

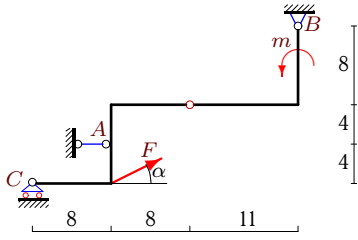
5



$F = 495 \text{ кН}, m = 990 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.29.

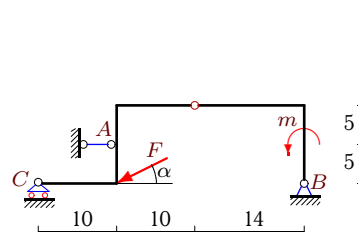
5



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

Задача 24.30.

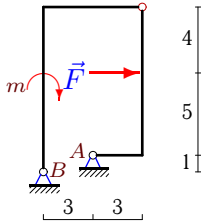
5



$F = 270 \text{ кН}, m = 270 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.31.

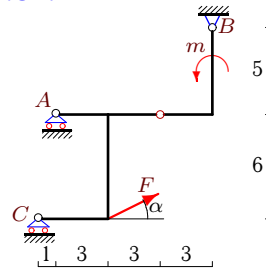
5



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

Задача 24.32.

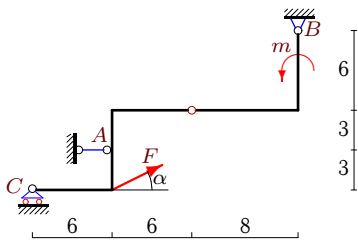
5



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

Задача 24.33.

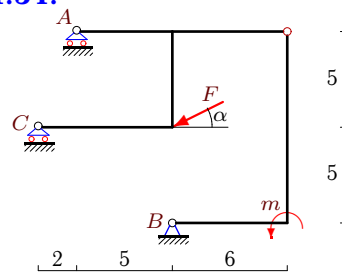
5



$F = 40 \text{ кН}, m = 80 \text{ кНм}, \cos \alpha = 0.8.$

Задача 24.34.

5



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

Простая составная конструкция

	X_A	Y_A	X_B	Y_B	Y_C	M_B
1	-	-329	-20	27	287	-
2	-4	-2	-2	2	-	-
3	4	-2	1	2	-	-
4	-1	-5	4	5	-	-
5	-2	21	-34	-21	-	-
6	-26	-	-10	-25	-2	-
7	0	-1	-1	1	-	-
8	-125	-	49	-33	-24	-
9	-	129	-40	-68	-91	-
10	-15	-21	20	21	-	-
11	-	758	180	-85	-538	-
12	158	-	-50	55	26	-
13	-	35	-12	-17	-27	-
14	-28	-	-20	-35	-1	-
15	-8	5	-3	-5	-	-
16	-4	-1	-3	1	-	-
17	-9	-5	-4	5	-	-
18	1	11	-7	-11	-	-
19	-	794	180	-85	-574	-
20	-	-13	-20	-21	19	-
21	-11	-5	-5	5	-	-
22	0	-1	-1	1	-	-
23	-10	3	-3	-3	-	-
24	-2	-1	-1	1	-	-
25	-	-247	-12	25	213	-
26	-20	15	-10	-15	-	-
27	-	-29	-20	-13	27	-
28	-651	-	255	-172	-125	-
29	2	-	-30	-25	4	-
30	376	-	-160	95	67	-
31	2	14	-8	-14	-	-
32	-	67	-12	-25	-51	-
33	-12	-	-20	-25	1	-
34	-	-101	12	25	85	-