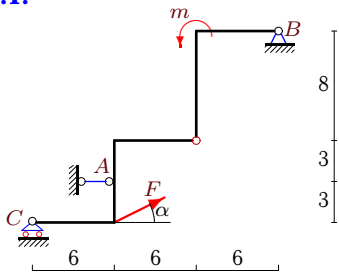


Простая составная конструкция

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

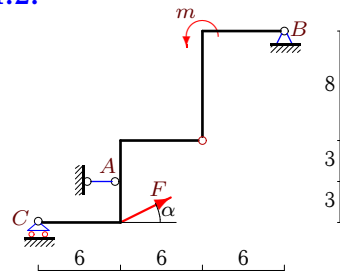
Кирсанов М.Н. **Решебник. Теоретическая механика**/Под ред. А. И. Кириллова.– М.:ФИЗМАТЛИТ, 2008.– 384 с. (с.67.)

Задача 24.1.



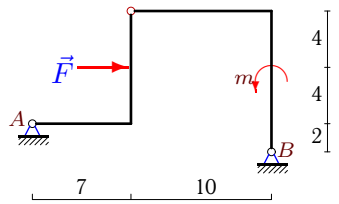
$$F = 130 \text{ кН}, m = 130 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.2.



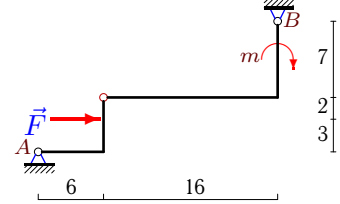
$$F = 130 \text{ кН}, m = 130 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.3.



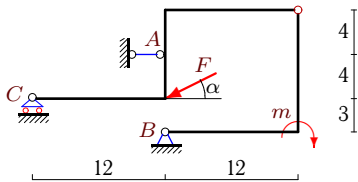
$$F = 2 \text{ кН}, m = 10 \text{ кНм}.$$

Задача 24.4.



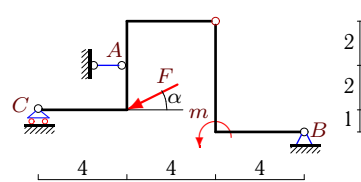
$$F = 3 \text{ кН}, m = 5 \text{ кНм}.$$

Задача 24.5.



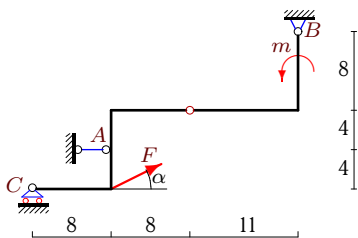
$$F = 30 \text{ кН}, m = 60 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.6.



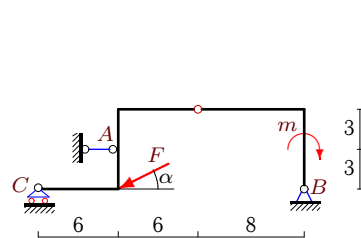
$$F = 40 \text{ кН}, m = 40 \text{ кНм}, \cos \alpha = 0.8.$$

Задача 24.7.



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

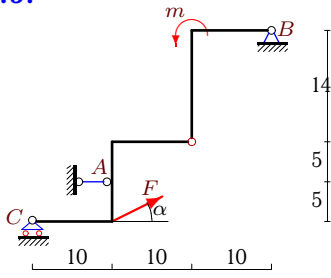
Задача 24.8.



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

Задача 24.9.

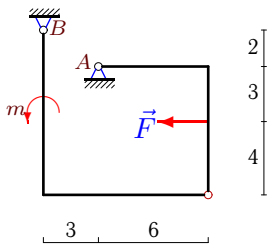
2



$F = 115 \text{ кН}, m = 230 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.11.

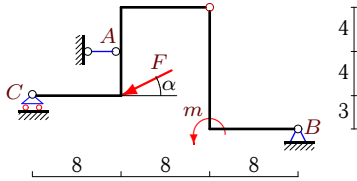
2



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

Задача 24.13.

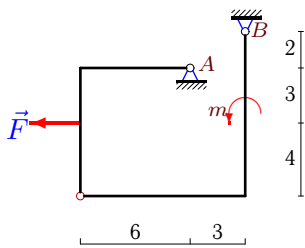
2



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

Задача 24.15.

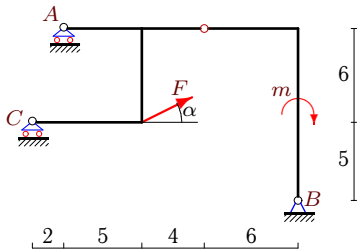
2



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

Задача 24.17.

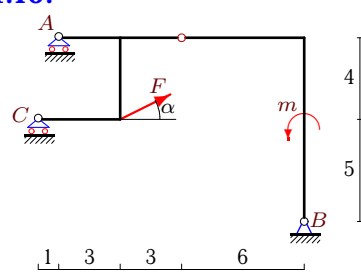
2



$F = 5 \text{ кН}, m = 10 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.10.

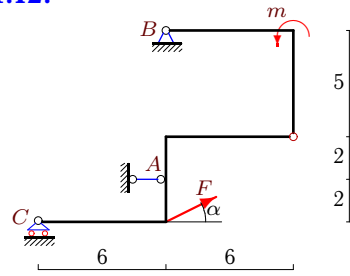
2



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

Задача 24.12.

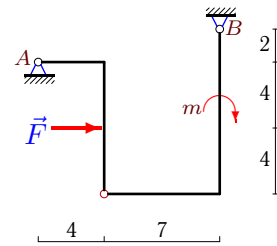
2



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

Задача 24.14.

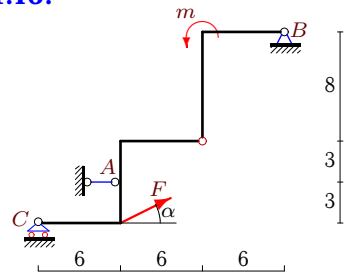
2



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

Задача 24.16.

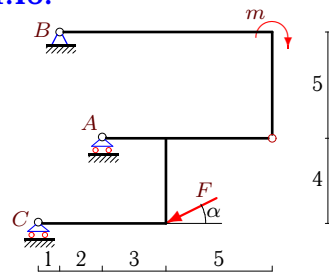
2



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

Задача 24.18.

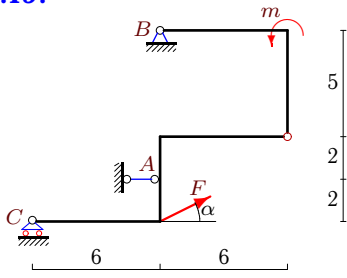
2



$F = 10 \text{ кН}, m = 10 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.19.

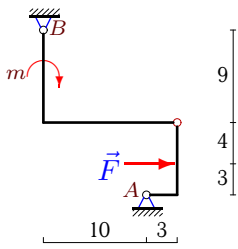
2



$F = 180 \text{ кН}, m = 360 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.21.

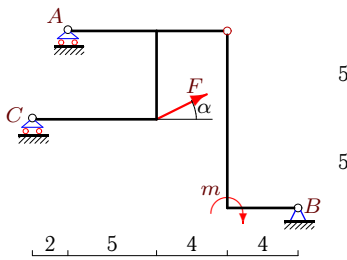
2



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

Задача 24.23.

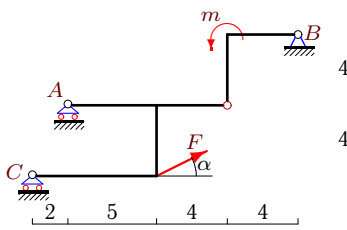
2



$F = 20 \text{ кН}, m = 40 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.25.

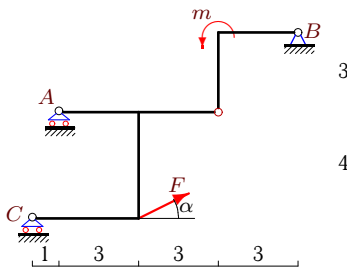
2



$F = 20 \text{ кН}, m = 40 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.27.

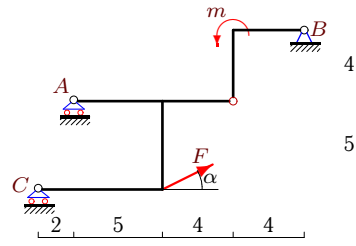
2



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

Задача 24.20.

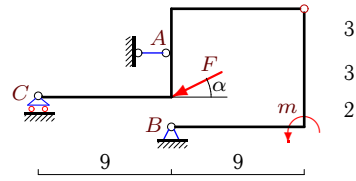
2



$F = 20 \text{ кН}, m = 40 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.22.

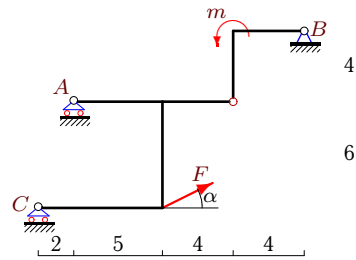
2



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

Задача 24.24.

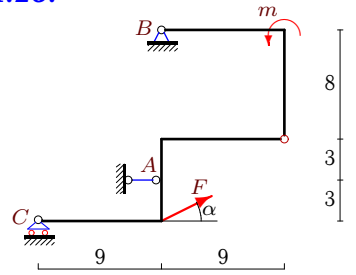
2



$F = 20 \text{ кН}, m = 40 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.26.

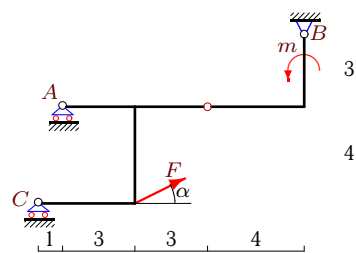
2



$F = 285 \text{ кН}, m = 570 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.28.

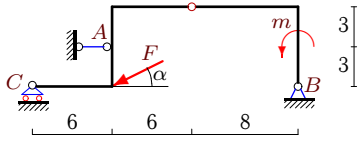
2



$F = 20 \text{ кН}, m = 20 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.29.

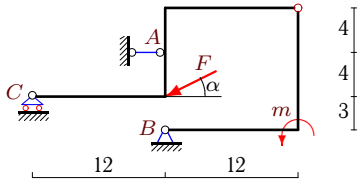
2



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

Задача 24.31.

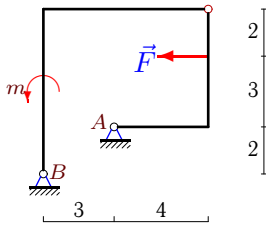
2



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

Задача 24.33.

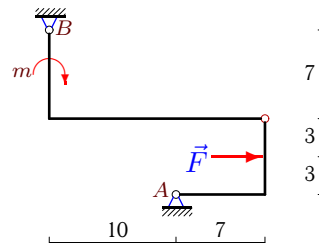
2



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

Задача 24.30.

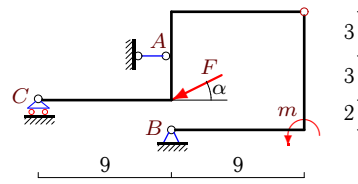
2



$F = 23 \text{ кН}, m = 5 \text{ кНМ}.$

Задача 24.32.

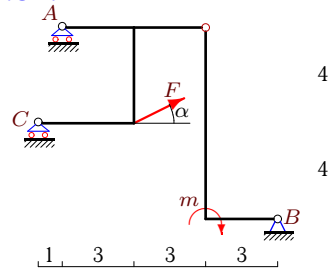
2



$F = 195 \text{ кН}, m = 390 \text{ кНМ}, \cos \alpha = 0.8.$

Задача 24.34.

2



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

Простая составная конструкция

	X_A	Y_A	X_B	Y_B	Y_C	M_B
1	-64	-	-40	-75	-3	-
2	-64	-	-40	-75	-3	-
3	-1	0	-1	0	-	-
4	0	1	-3	-1	-	-
5	0	-	24	17	1	-
6	52	-	-20	15	9	-
7	-2	-	-10	-10	1	-
8	84	-	-20	35	13	-
9	-62	-	-30	-65	-4	-
10	-	-385	-24	31	336	-
11	-4	8	9	-8	-	-
12	-21	-	9	-5	-4	-
13	82	-	-30	25	14	-
14	-9	5	-4	-5	-	-
15	-4	-8	9	8	-	-
16	-64	-	-40	-75	-3	-
17	-	-72	-4	9	60	-
18	-	41	8	-5	-30	-
19	-282	-	138	-55	-53	-
20	-	61	-16	-26	-47	-
21	-24	-8	-12	8	-	-
22	23	-	29	33	6	-
23	-	-357	-16	50	295	-
24	-	53	-16	-26	-39	-
25	-	69	-16	-26	-55	-
26	-405	-	177	-94	-77	-
27	-	35	-12	-17	-27	-
28	-	7	-16	-17	-2	-
29	228	-	-100	55	41	-
30	-15	-3	-8	3	-	-
31	15	-	21	23	4	-
32	99	-	57	94	23	-
33	-14	-20	19	20	-	-
34	-	-343	-12	37	297	-