

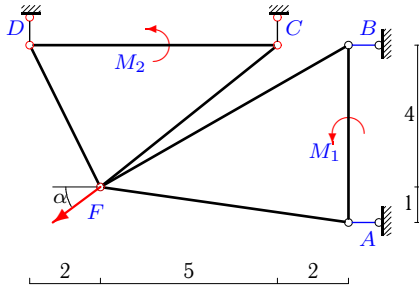
Простая составная конструкция

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

Кирсанов М.Н. Задачи по теоретической механике с решениями в **Maple 11.** – М.: ФИЗМАТЛИТ, 2010. – 264 с. (с.15)

Задача S24.1.

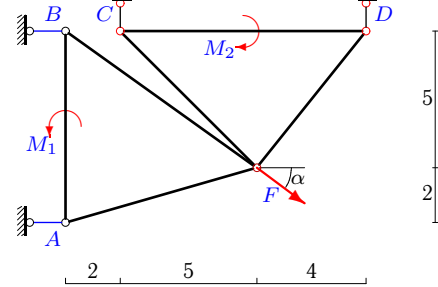
5



$$F = 10 \text{ кН}, M_1 = 7 \text{ кНм}, M_2 = 5 \text{ кНм}, \cos \alpha = 0.8.$$

Задача S24.2.

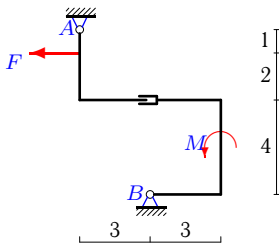
5



$$F = 5 \text{ кН}, M_1 = 22 \text{ кНм}, M_2 = 39 \text{ кНм}, \cos \alpha = 0.8.$$

Задача S24.3.

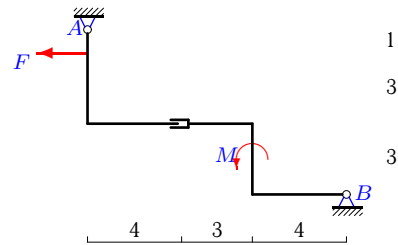
5



$$F = 3 \text{ кН}, M = 9 \text{ кНм}.$$

Задача S24.4.

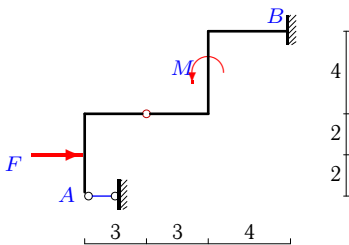
5



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

Задача S24.5.

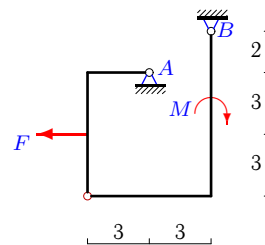
5



$$F = 2 \text{ кН}, M = 7 \text{ кНм}.$$

Задача S24.6.

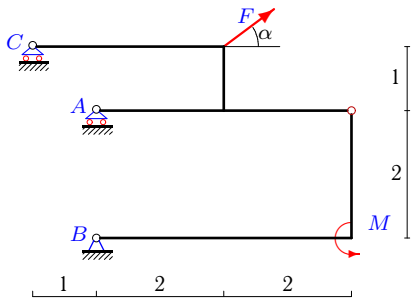
5



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

Задача S24.7.

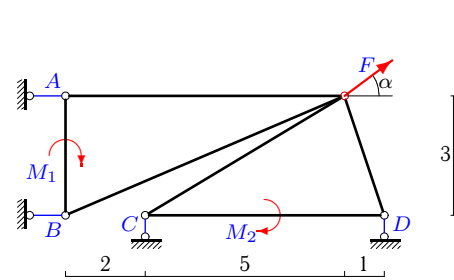
5



$$F = 5 \text{ кН}, M = 16 \text{ кНм}, \cos \alpha = 0.8.$$

Задача S24.8.

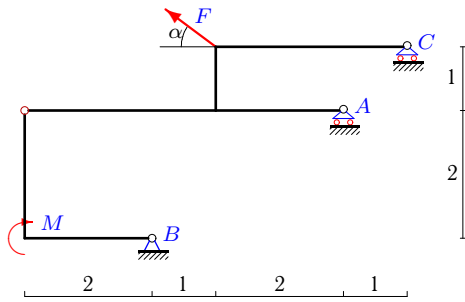
5



$$F = 15 \text{ кН}, M_1 = 6 \text{ кНм}, M_2 = 9 \text{ кНм}, \cos \alpha = 0.8.$$

Задача S24.9.

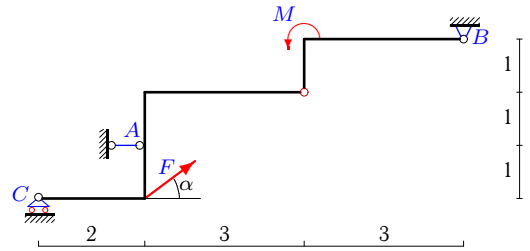
5



$F = 15 \text{ кН}, M = 34 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.10.

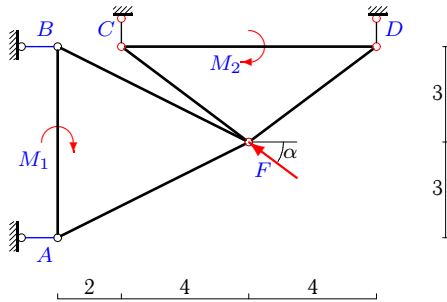
5



$F = 5 \text{ кН}, M = 0 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.11.

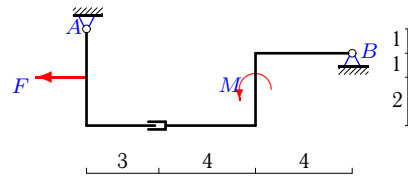
5



$F = 5 \text{ кН}, M_1 = 24 \text{ кНм}, M_2 = 28 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.12.

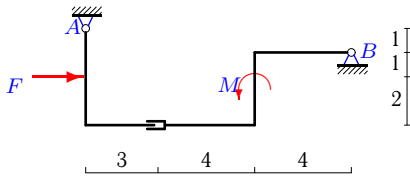
5



$F = 22 \text{ кН}, M = 33 \text{ кНм}.$

Задача S24.13.

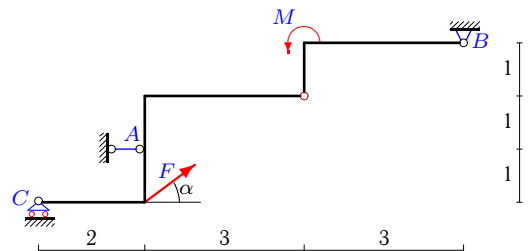
5



$F = 11 \text{ кН}, M = 22 \text{ кНм}.$

Задача S24.14.

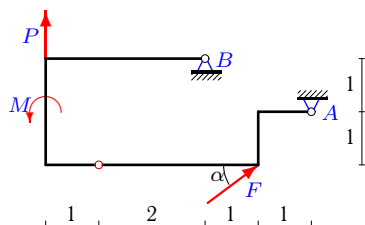
5



$F = 5 \text{ кН}, M = 0 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.15.

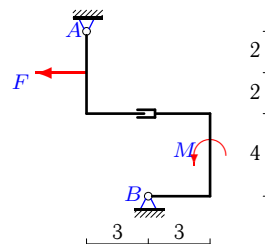
5



$P = 4 \text{ кН}, F = 5 \text{ кН}, M = 4 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.16.

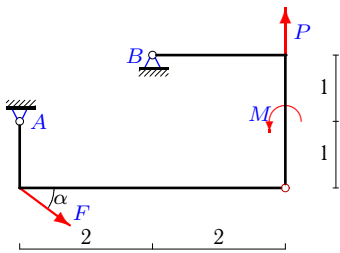
5



$F = 1 \text{ кН}, M = 2 \text{ кНм}.$

Задача S24.17.

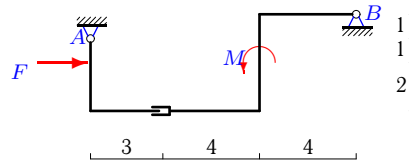
5



$P = 6 \text{ кН}, F = 15 \text{ кН}, M = 12 \text{ кНм},$
 $\cos \alpha = 0.8.$

Задача S24.18.

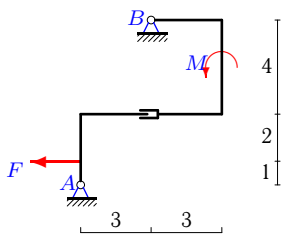
5



$F = 11 \text{ кН}, M = 11 \text{ кНм}.$

Задача S24.19.

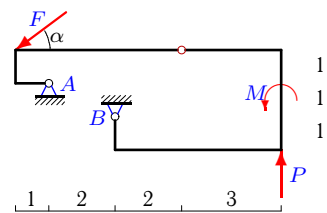
5



$F = 1 \text{ кН}, M = 2 \text{ кНм}.$

Задача S24.20.

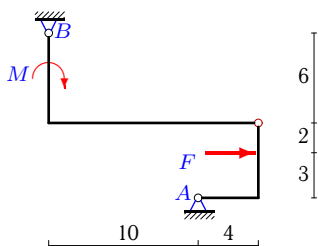
5



$P = 6 \text{ кН}, F = 15 \text{ кН}, M = 6 \text{ кНм},$
 $\cos \alpha = 0.8.$

Задача S24.21.

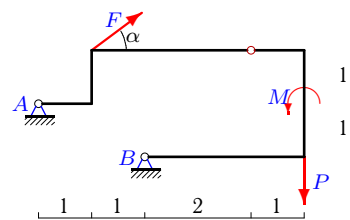
5



$F = 22 \text{ кН}, M = 4 \text{ кНм}.$

Задача S24.22.

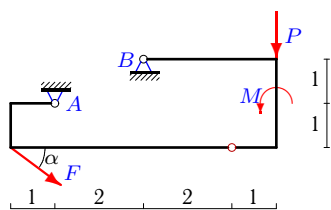
5



$P = 4 \text{ кН}, F = 5 \text{ кН}, M = 2 \text{ кНм},$
 $\cos \alpha = 0.8.$

Задача S24.23.

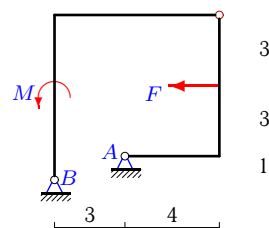
5



$P = 2 \text{ кН}, F = 5 \text{ кН}, M = 4 \text{ кНм},$
 $\cos \alpha = 0.8.$

Задача S24.24.

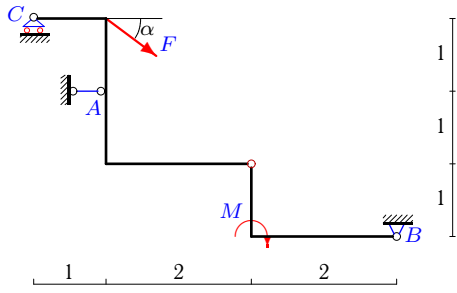
5



$F = 4 \text{ кН}, M = 7 \text{ кНм}.$

Задача S24.25.

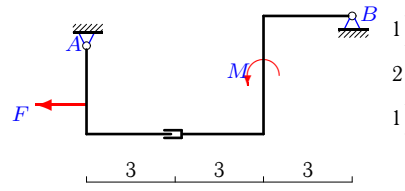
5



$F = 10 \text{ кН}, M = 9 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.26.

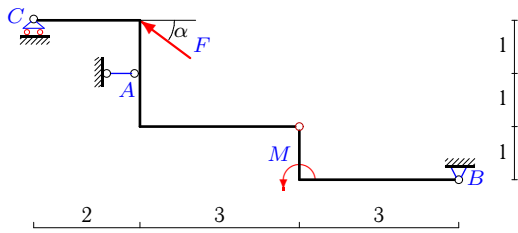
5



$F = 1 \text{ кН}, M = 2 \text{ кНм}.$

Задача S24.27.

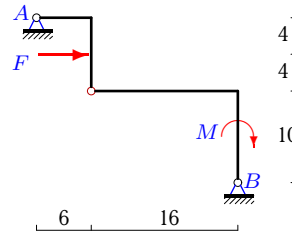
5



$F = 5 \text{ кН}, M = 6 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.28.

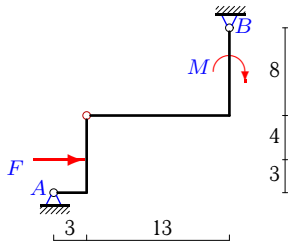
5



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

Задача S24.29.

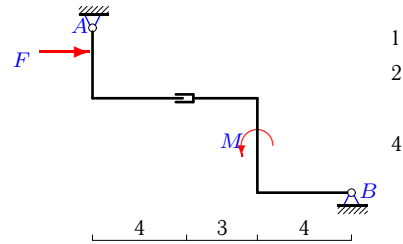
5



$F = 21 \text{ кН}, M = 5 \text{ кНм}.$

Задача S24.30.

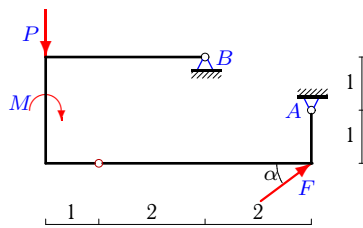
5



$F = 11 \text{ кН}, M = 22 \text{ кНм}.$

Задача S24.31.

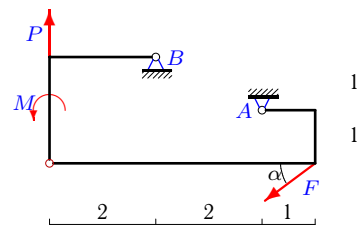
5



$P = 3 \text{ кН}, F = 15 \text{ кН}, M = 3 \text{ кНм}, \cos \alpha = 0.8.$

Задача S24.32.

5



$P = 2 \text{ кН}, F = 10 \text{ кН}, M = 2 \text{ кНм}, \cos \alpha = 0.8.$

S24 Ответы.**Простая составная конструкция**

15.06.2012

№	X_A	Y_A	X_B	Y_B	Y_C	M_B	Y_D
1	5	-	3	-	1	-	5
2	-6	-	2	-	-3	-	6
3	3	2	0	-2	-	-	-
4	1	0	0	0	-	-	-
5	-1	-	-1	0	-	-11	-
6	-3	-10	7	10	-	-	-
7	-	-15	-4	2	10	-	-
8	-14	-	2	-	-3	-	-6
9	-	-45	12	5	31	-	-
10	11	-	-15	-5	2	-	-
11	6	-	-2	-	-5	-	2
12	22	-1	0	1	-	-	-
13	-11	4	0	-4	-	-	-
14	11	-	-15	-5	2	-	-
15	1	-2	-5	-5	-	-	-
16	1	0	0	0	-	-	-
17	-32	17	20	-14	-	-	-
18	-11	2	0	-2	-	-	-
19	1	1	0	-1	-	-	-
20	43	22	-31	-19	-	-	-
21	-12	-4	-10	4	-	-	-
22	-11	-5	7	6	-	-	-
23	-5	5	1	0	-	-	-
24	-4	-9	8	9	-	-	-
25	-7	-	1	-5	1	-	-
26	1	0	0	0	-	-	-
27	4	-	0	2	-1	-	-
28	0	-4	-6	4	-	-	-
29	-9	7	-12	-7	-	-	-
30	-11	3	0	-3	-	-	-
31	-20	-14	8	8	-	-	-
32	14	11	-6	-7	-	-	-

S24 файл о24s5H