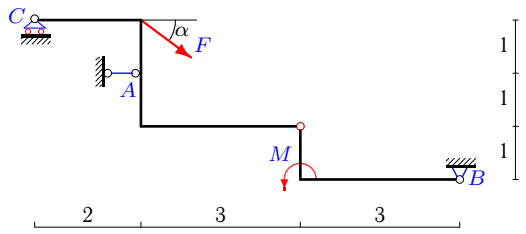
Простая составная конструкция

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

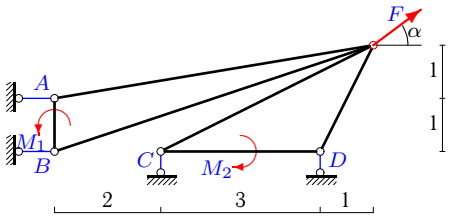
Кирсанов М.Н. Задачи по теоретической механике с решениями в **Maple** 11. – М.: ФИЗМАТЛИТ, 2010. — 264 с. (с.15)

Задача S24.1. *8*



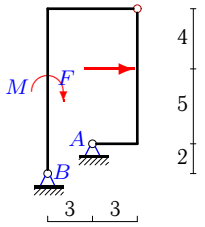
$F = 5$ кН, $M = 0$ кНм, $\cos\alpha = 0.8$.

Задача S24.2. *8*



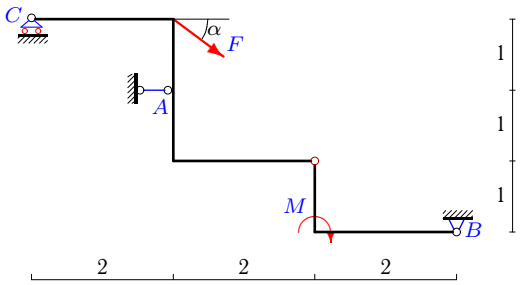
$F = 25$ кН, $M_1 = 23$ кНм, $M_2 = 51$ кНм, $\cos\alpha = 0.8$.

Задача S24.3. *8*



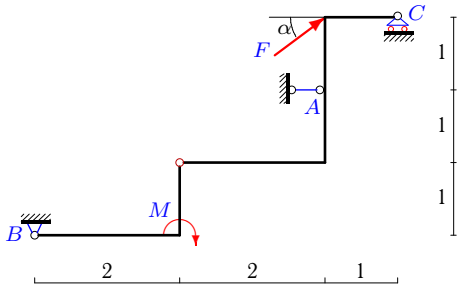
$F = 3$ кН, $M = 5$ кНм.

Задача S24.4. *8*



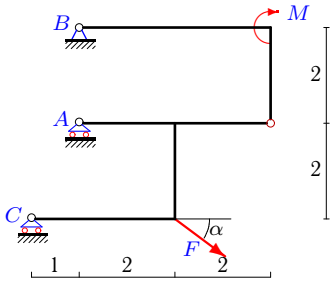
$F = 5$ кН, $M = 6$ кНм, $\cos\alpha = 0.8$.

Задача S24.5. *8*



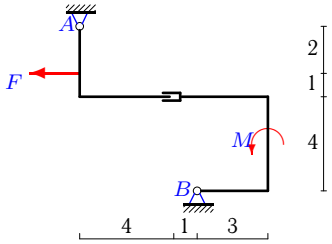
$F = 10$ кН, $M = 7$ кНм, $\cos\alpha = 0.8$.

Задача S24.6. *8*



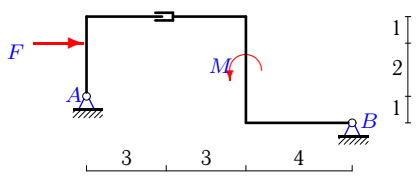
$F = 10$ кН, $M = 28$ кНм, $\cos\alpha = 0.8$.

Задача S24.7. *8*



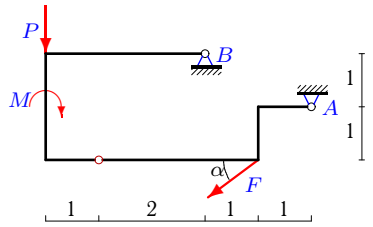
$F = 5$ кН, $M = 5$ кНм.

Задача S24.8. *8*



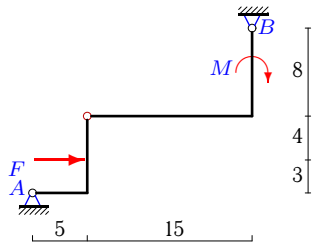
$F = 20$ кН, $M = 30$ кНм.

Задача S24.9.



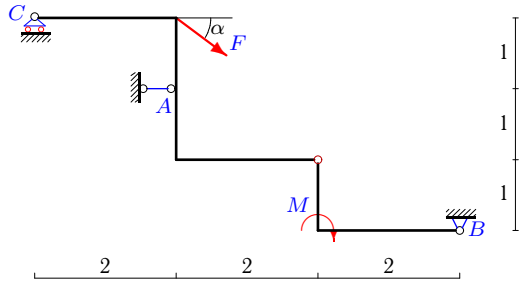
$P = 6$ кН, $F = 30$ кН, $M = 12$ кНм, $\cos\alpha = 0.8$.

Задача S24.10.



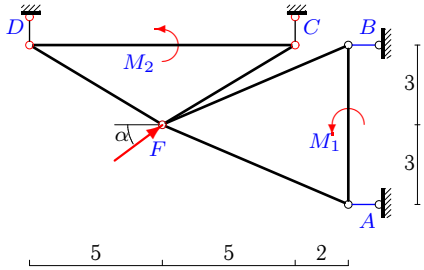
$F = 15$ кН, $M = 5$ кНм.

Задача S24.11.



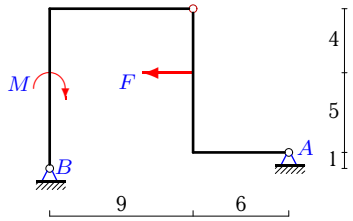
$F = 10$ кН, $M = 10$ кНм, $\cos\alpha = 0.8$.

Задача S24.12.



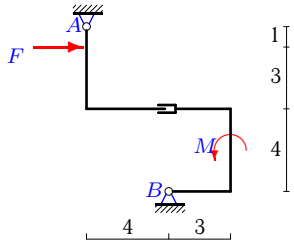
$F = 5$ кН, $M_1 = 6$ кНм, $M_2 = 45$ кНм, $\cos\alpha = 0.8$.

Задача S24.13.



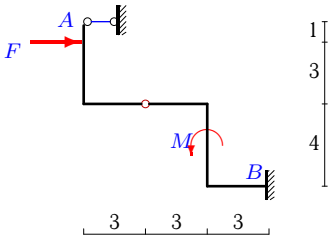
$F = 3$ кН, $M = 1$ кНм.

Задача S24.14.



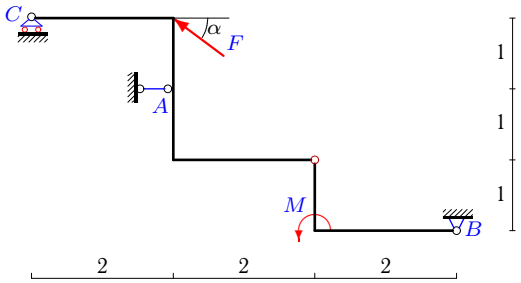
$F = 2$ кН, $M = 2$ кНм.

Задача S24.15.



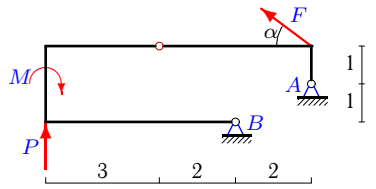
$F = 4$ кН, $M = 6$ кНм.

Задача S24.16.



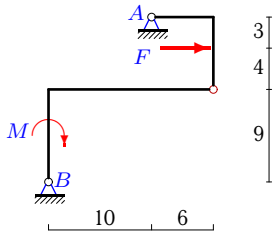
$F = 5$ кН, $M = 0$ кНм, $\cos\alpha = 0.8$.

Задача S24.17.



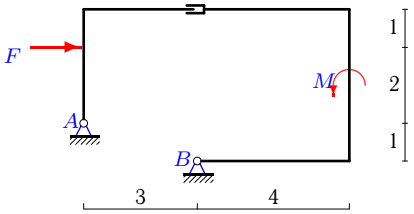
$P = 3$ кН, $F = 15$ кН, $M = 3$ кНм, $\cos\alpha = 0.8$.

Задача S24.18.



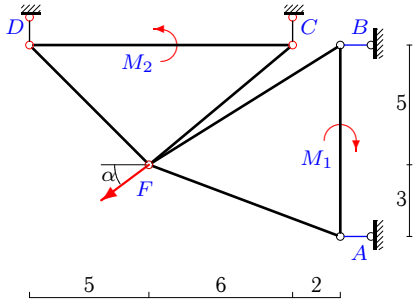
$F = 11$ кН, $M = 5$ кНм.

Задача S24.19.



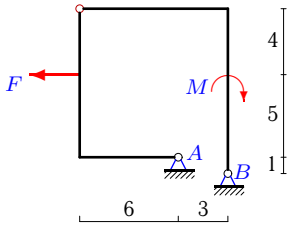
$F = 1$ кН, $M = 2$ кНм.

Задача S24.20.



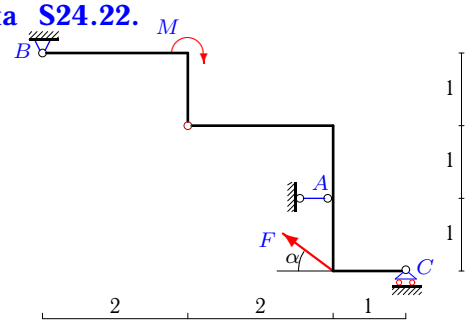
$F = 5$ кН, $M_1 = 4$ кНм, $M_2 = 4$ кНм, $\cos\alpha = 0.8$.

Задача S24.21.



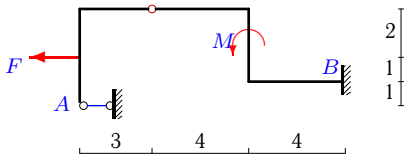
$F = 3$ кН, $M = 5$ кНм.

Задача S24.22.



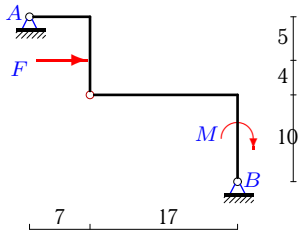
$F = 5$ кН, $M = 6$ кНм, $\cos\alpha = 0.8$.

Задача S24.23.



$F = 8$ кН, $M = 7$ кНм.

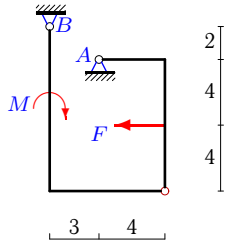
Задача S24.24.



$F = 24$ кН, $M = 5$ кНм.

Задача S24.25.

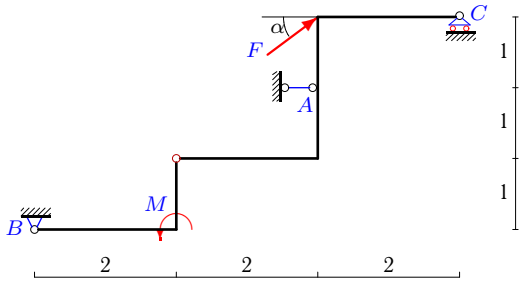
8



$F = 1$ кН, $M = 5$ кНм.

Задача S24.26.

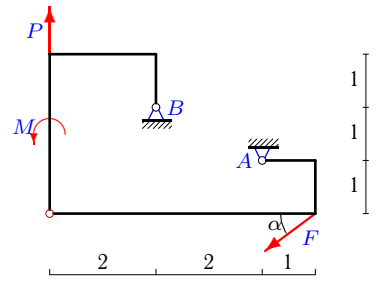
8



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

Задача S24.27.

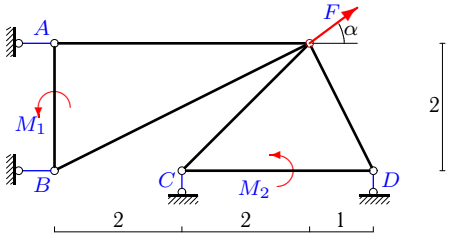
8



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

Задача S24.28.

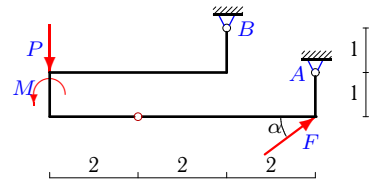
8



$F = 5$ кН, $M_1 = 4$ кНм, $M_2 = 9$ кНм, $\cos\alpha = 0.8$.

Задача S24.29.

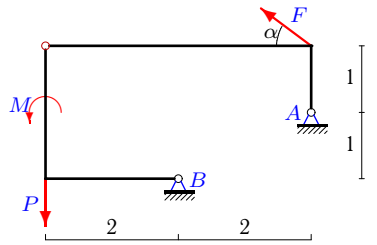
8



$P = 2$ кН, $F = 5$ кН, $M = 2$ кНм, $\cos\alpha = 0.8$.

Задача S24.30.

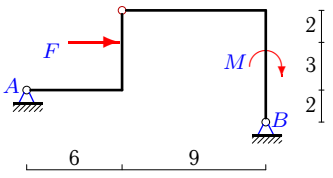
8



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

Задача S24.31.

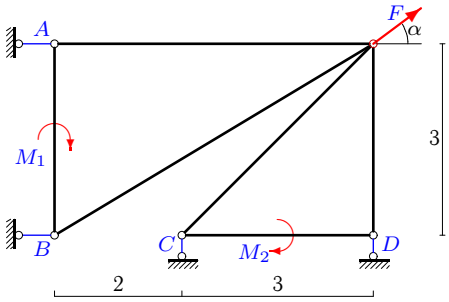
8



$F = 20$ кН, $M = 3$ кНм.

Задача S24.32.

8



$F = 15$ кН, $M_1 = 6$ кНм, $M_2 = 15$ 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	11	–	15	−5	−2	–	–
2	−17	–	−3	–	−12	–	−3
3	2	10	−5	−10	–	–	–
4	−6	–	−2	−2	1	–	–
5	−1	–	−7	−7	1	–	–
6	–	17	−8	−3	−8	–	–
7	5	−1	0	1	–	–	–
8	−20	−1	0	1	–	–	–
9	22	19	2	5	–	–	–
10	−5	5	−10	−5	–	–	–
11	−8	–	0	−5	1	–	–
12	−3	–	−1	–	−6	–	3
13	2	−1	1	1	–	–	–
14	−2	1	0	−1	–	–	–
15	−3	–	−1	0	–	−2	–
16	−6	–	−10	5	2	–	–
17	4	−10	8	−2	–	–	–
18	−8	2	−3	−2	–	–	–
19	−1	0	0	0	–	–	–
20	3	–	1	–	1	–	2
21	−2	5	5	−5	–	–	–
22	8	–	4	1	−2	–	–
23	4	–	4	0	–	−19	–
24	1	−15	−25	15	–	–	–
25	−2	5	3	−5	–	–	–
26	6	–	−10	−5	2	–	–
27	31	19	−19	−22	–	–	–
28	−2	–	−2	–	2	–	−5
29	−12	−6	8	5	–	–	–
30	28	−16	−16	13	–	–	–
31	−14	−5	−6	5	–	–	–
32	−14	–	2	–	−5	–	−4

S24 файл o24s8H