

## Простая составная конструкция

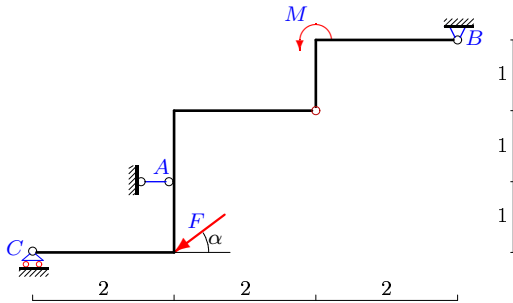
Определить реакции опор конструкции (в кН), состоящей из двух тел.

Кирсанов М.Н. Задачи по теоретической механике с решениями в Maple 11. – М.:

ФИЗМАТЛИТ, 2010. – 264 с. (с.15)

**Задача S-24.1.**

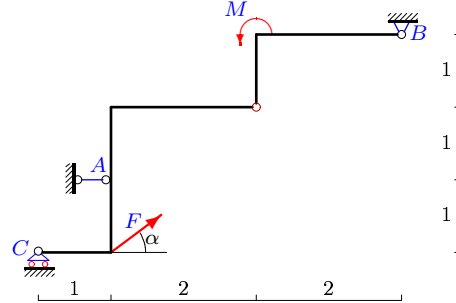
111



$$F = 5 \text{ кН}, M = 2 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.2.**

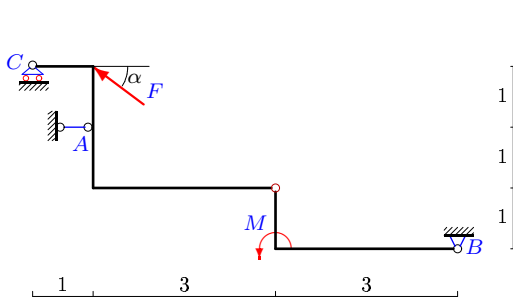
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$$F = 5 \text{ кН}, M = 7 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.3.**

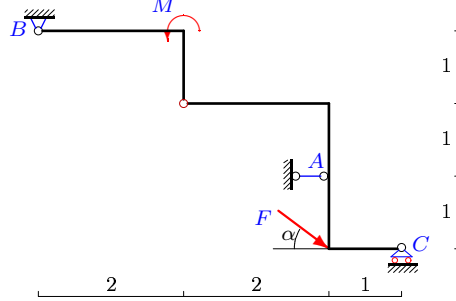
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$$F = 5 \text{ кН}, M = 4 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.4.**

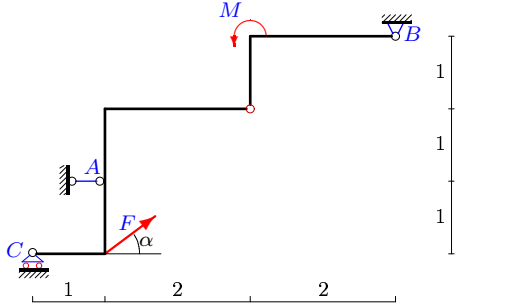
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$$F = 5 \text{ кН}, M = 1 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.5.**

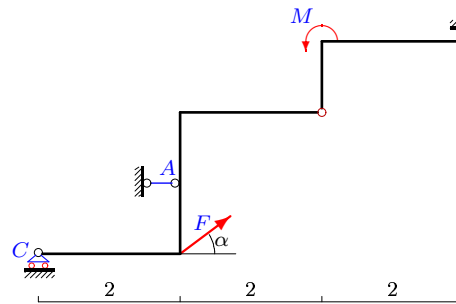
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$$F = 5 \text{ кН}, M = 5 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.6.**

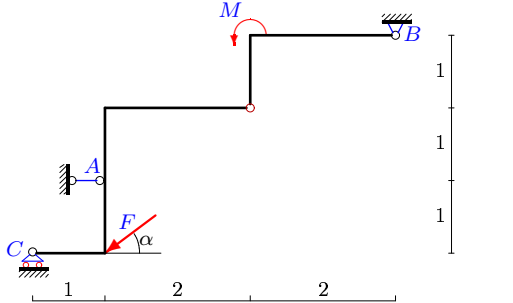
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$$F = 5 \text{ кН}, M = 8 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.7.**

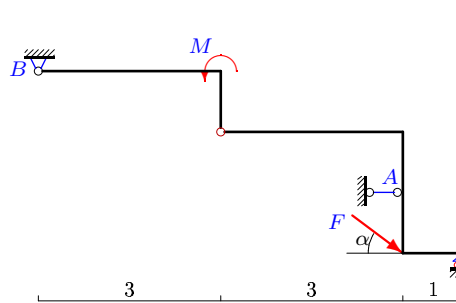
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$$F = 5 \text{ кН}, M = 1 \text{ кНм}, \cos \alpha = 0,8.$$

**Задача S-24.8.**

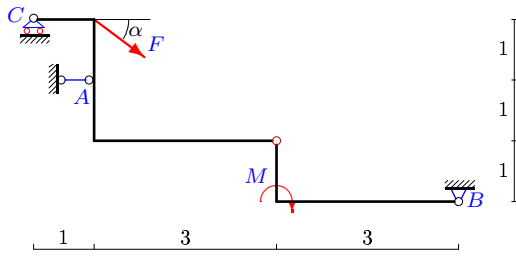
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$$F = 5 \text{ кН}, M = 4 \text{ кНм}, \cos \alpha = 0,8.$$

Задача S-24.9.

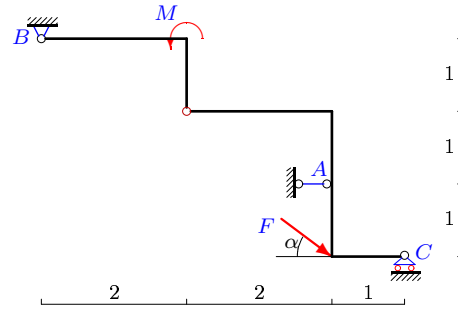
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$F = 10 \text{ кН}, M = 7 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.10.

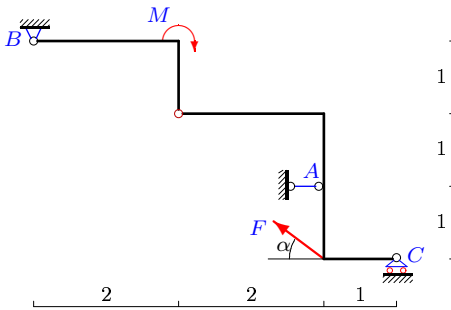
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$F = 5 \text{ кН}, M = 2 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.11.

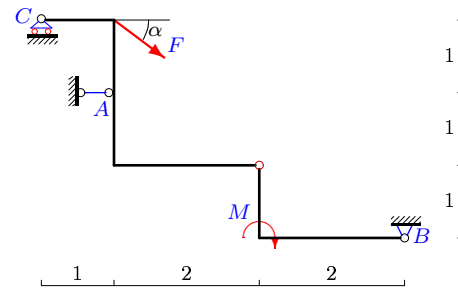
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$F = 5 \text{ кН}, M = 5 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.12.

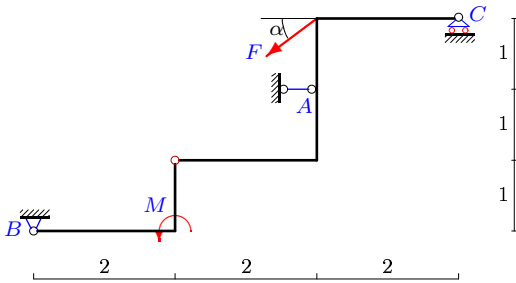
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$F = 5 \text{ кН}, M = 7 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.13.

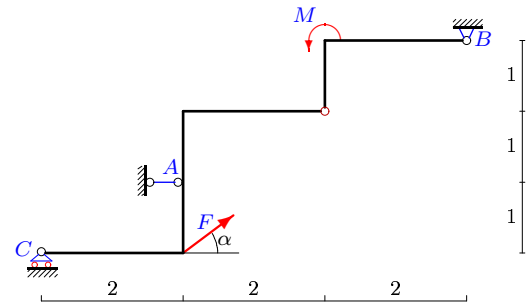
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$F = 10 \text{ кН}, M = 14 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.14.

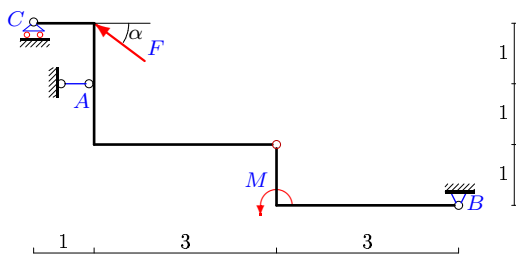
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$F = 10 \text{ кН}, M = 18 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.15.

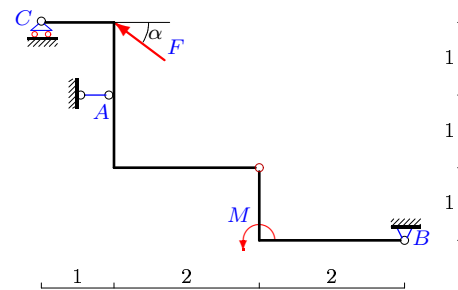
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$F = 10 \text{ кН}, M = 11 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.16.

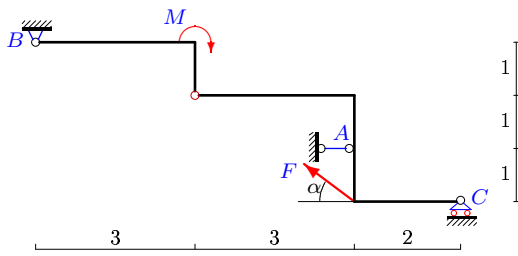
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$F = 5 \text{ кН}, M = 2 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.17.

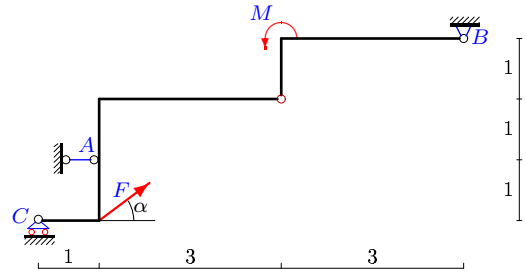
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$F = 5 \text{ кН}, M = 2 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.18.

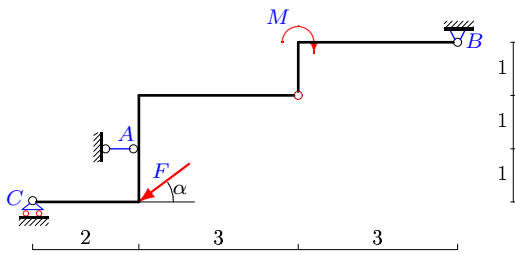
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$F = 5 \text{ кН}, M = 3 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.19.

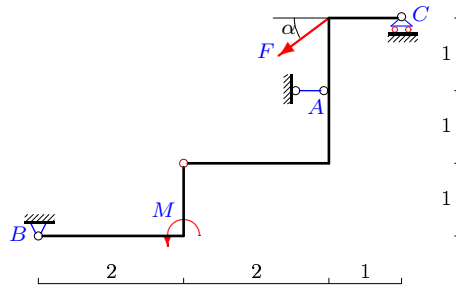
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$F = 5 \text{ кН}, M = 10 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.20.

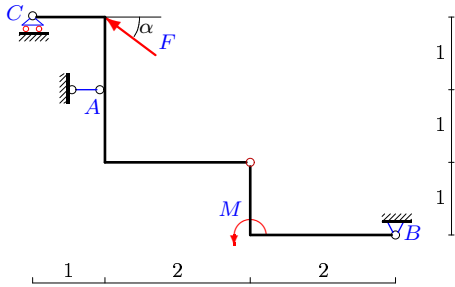
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$F = 5 \text{ кН}, M = 6 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.21.

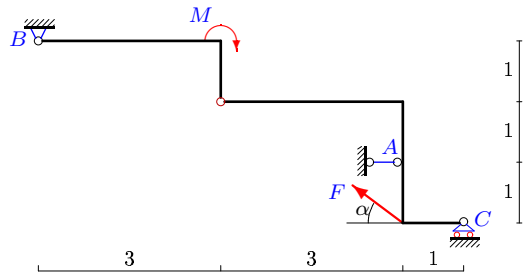
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$F = 5 \text{ кН}, M = 3 \text{ кНм}, \cos \alpha = 0,8.$

Задача S-24.22.

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$F = 5 \text{ кН}, M = 1 \text{ кНм}, \cos \alpha = 0,8.$

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**Ответы.**  
**Простая составная конструкция**

06-Mar-19

№	$X_A$	$Y_A$	$X_B$	$Y_B$	$Y_C$	$M_B$	$Y_D$
1	-10	-	14	6	-3	-	-
2	-11	-	7	0	-3	-	-
3	-1	-	-5	3	0	-	-
4	7	-	11	-6	-3	-	-
5	-5	-	1	-2	-1	-	-
6	-10	-	6	-1	-2	-	-
7	-13	-	17	8	-5	-	-
8	1	-	5	-3	0	-	-
9	6	-	14	-7	-1	-	-
10	4	-	8	-5	-2	-	-
11	5	-	1	2	-1	-	-
12	-11	-	-7	0	3	-	-
13	16	-	-8	3	3	-	-
14	-24	-	16	-1	-5	-	-
15	10	-	2	3	-3	-	-
16	-4	-	-8	5	2	-	-
17	-6	-	-10	4	1	-	-
18	5	-	-9	-4	1	-	-
19	14	-	-10	0	3	-	-
20	8	-	-4	1	2	-	-
21	-1	-	-5	4	1	-	-
22	-13	-	-17	6	3	-	-

S-24 файл 24s111-AnsB