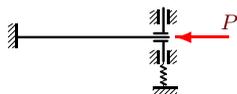


Устойчивость стержня на упругих опорах

Прямолинейный стержень длиной l , закрепленный на одном конце в упругой опоре, сжимается продольной силой P . Задана относительная жесткость для линейного смещения Δy опоры $a = EJ/(c_1 l^3)$, где c_1 — жесткость пружины ($N_{\text{упр}} = c_1 \Delta y$,) или относительная жесткость для углового смещения $\Delta \varphi$ $b = EJ/(c_2 l)$, где c_2 — жесткость пружины ($M_{\text{упр}} = c_2 \Delta \varphi$.) Определить коэффициент μ приведения длины стержня.

Задача 33.1.

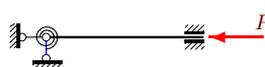
2



$$a = 0.431$$

Задача 33.2.

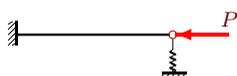
2



$$b = 0.263$$

Задача 33.3.

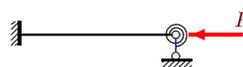
2



$$a = 0.376$$

Задача 33.4.

2



$$b = 0.916$$

Задача 33.5.

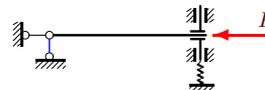
2



$$a = 0.131$$

Задача 33.6.

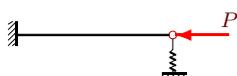
2



$$a = 0.129$$

Задача 33.7.

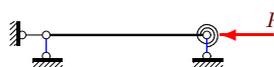
2



$$a = 0.189$$

Задача 33.8.

2



$$b = 0.219$$

Задача 33.9.

2



$$a = 0.131$$

Задача 33.10.

2



$$a = 0.431$$

Задача 33.11.

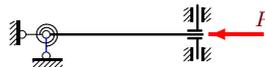
2



$a = 0.431$

Задача 33.12.

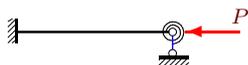
2



$b = 1.095$

Задача 33.13.

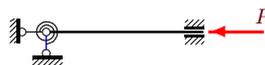
2



$b = 0.554$

Задача 33.14.

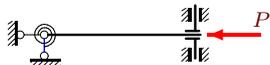
2



$b = 0.091$

Задача 33.15.

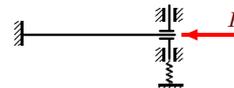
2



$b = 1.095$

Задача 33.16.

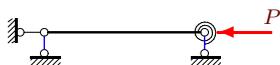
2



$a = 0.029$

Задача 33.17.

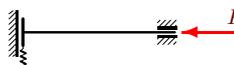
2



$b = 0.104$

Задача 33.18.

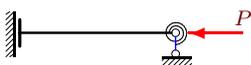
2



$a = 0.431$

Задача 33.19.

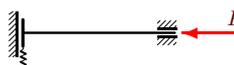
2



$b = 0.103$

Задача 33.20.

2



$a = 0.058$

Задача 33.21.

2



$a = 0.117$

Задача 33.22.

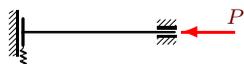
2



$b = 0.104$

Задача 33.23.

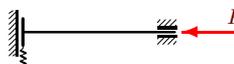
2



$a = 0.047$

Задача 33.24.

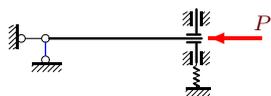
2



$a = 0.047$

Задача 33.25.

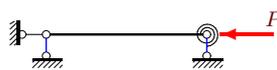
2



$$a = 0.061$$

Задача 33.26.

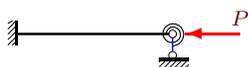
2



$$b = 0.308$$

Задача 33.27.

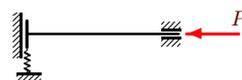
2



$$b = 0.916$$

Задача 33.28.

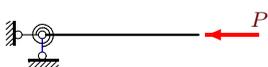
2



$$a = 0.094$$

Задача 33.29.

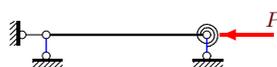
2



$$b = 0.400$$

Задача 33.30.

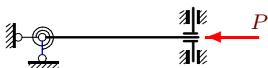
2



$$b = 0.063$$

Задача 33.31.

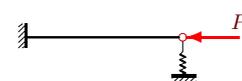
2



$$b = 0.250$$

Задача 33.32.

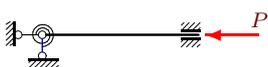
2



$$a = 0.230$$

Задача 33.33.

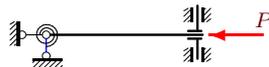
2



$$b = 0.134$$

Задача 33.34.

2



$$b = 1.835$$

Устойчивость стержня на упругих опорах

№	μ
1	0.917
2	0.592
3	1.467
4	0.652
5	0.786
6	1.084
7	1.222
8	0.810
9	0.786
10	0.917
11	0.917
12	1.571
13	0.631
14	0.542
15	1.571
16	0.524
17	0.762
18	0.917
19	1.100
20	0.647
21	1.048
22	0.762
23	0.611
24	0.611
25	0.850
26	0.837
27	0.652
28	0.733
29	2.750
30	0.740
31	1.222
32	1.294
33	0.558
34	1.692