

Структурные модели среды

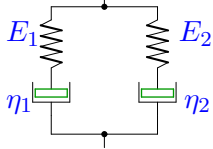
Вывести определяющее уравнение среды.

Модули упругости и коэффициенты вязкости даны в безразмерном виде. В ответах приведены коэффициенты уравнения

$$A_2\ddot{\sigma} + A_1\dot{\sigma} + A_0\sigma = B_2\ddot{\varepsilon} + B_1\dot{\varepsilon} + B_0\varepsilon.$$

Задача M2.1.

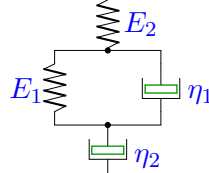
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$$E_1 = 1, E_2 = 3, \eta_1 = 1, \eta_2 = 4.$$

Задача M2.2.

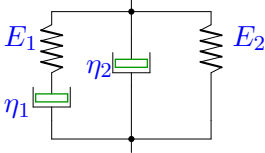
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$$E_1 = 2, E_2 = 1, \eta_1 = 2, \eta_2 = 4.$$

Задача M2.3.

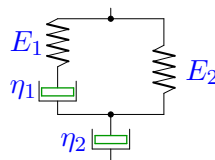
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$$E_1 = 2, E_2 = 1, \eta_1 = 2, \eta_2 = 1.$$

Задача M2.4.

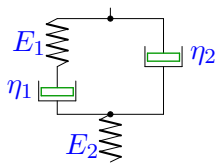
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$$E_1 = 1, E_2 = 3, \eta_1 = 1, \eta_2 = 4.$$

Задача M2.5.

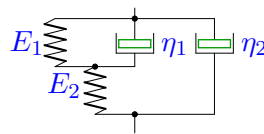
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$$E_1 = 2, E_2 = 1, \eta_1 = 1, \eta_2 = 2.$$

Задача M2.6.

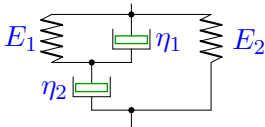
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$$E_1 = 1, E_2 = 3, \eta_1 = 2, \eta_2 = 1.$$

Задача M2.7.

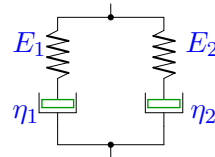
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$$E_1 = 1, E_2 = 3, \eta_1 = 1, \eta_2 = 4.$$

Задача M2.8.

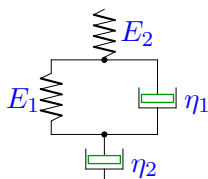
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$$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 4.$$

Задача M2.9.

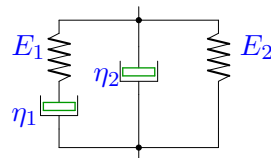
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$$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 2.$$

Задача M2.10.

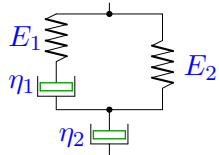
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$$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 2.$$

Задача M2.11.

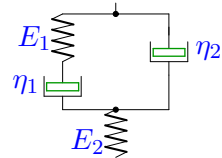
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$E_1 = 1, E_2 = 2, \eta_1 = 2, \eta_2 = 1.$

Задача M2.12.

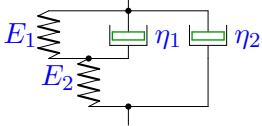
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$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 2.$

Задача M2.13.

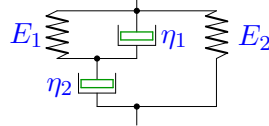
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$E_1 = 1, E_2 = 2, \eta_1 = 2, \eta_2 = 1.$

Задача M2.14.

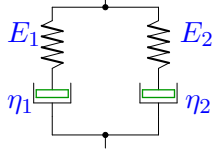
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$E_1 = 1, E_2 = 2, \eta_1 = 2, \eta_2 = 4.$

Задача M2.15.

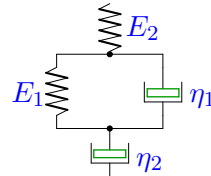
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$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 2.$

Задача M2.16.

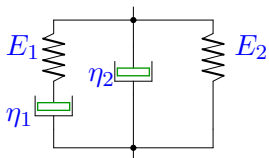
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$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 4.$

Задача M2.17.

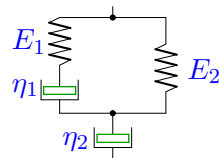
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$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 4.$

Задача M2.18.

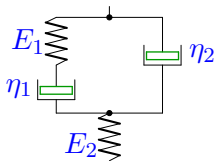
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$E_1 = 2, E_2 = 1, \eta_1 = 2, \eta_2 = 1.$

Задача M2.19.

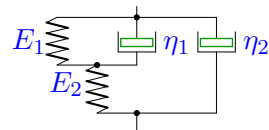
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$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 2.$

Задача M2.20.

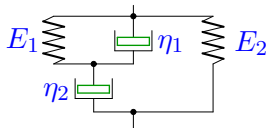
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$E_1 = 2, E_2 = 3, \eta_1 = 2, \eta_2 = 1.$

Задача M2.21.

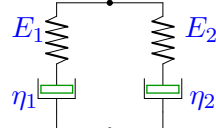
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$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 2.$

Задача M2.22.

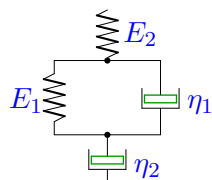
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$E_1 = 2, E_2 = 1, \eta_1 = 1, \eta_2 = 4.$

Задача M2.23.

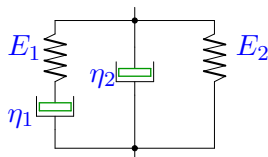
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$$E_1 = 2, E_2 = 3, \eta_1 = 1, \eta_2 = 4.$$

Задача M2.24.

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$$E_1 = 2, E_2 = 3, \eta_1 = 2, \eta_2 = 4.$$