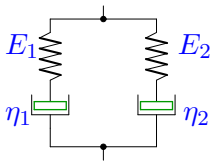
Структурные модели среды

Вывести определяющее уравнение среды.

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

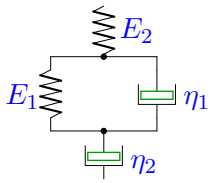
$$A_2\ddot{\sigma} + A_1\dot{\sigma} + A_0\sigma = B_2\ddot{\varepsilon} + B_1\dot{\varepsilon} + B_0\varepsilon.$$

Задача 2.1. *Ван Синьин*



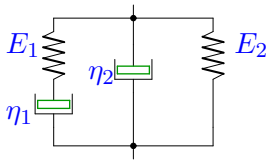
$E_1 = 1,\ E_2 = 3,\ \eta_1 = 1,\ \eta_2 = 4.$

Задача 2.2. *Гусев Александр*



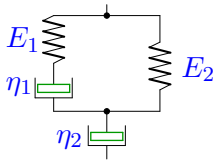
$E_1 = 4,\ E_2 = 1,\ \eta_1 = 4,\ \eta_2 = 3.$

Задача 2.3. *Демидова Анастасия*



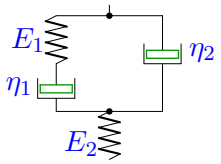
$E_1 = 3,\ E_2 = 1,\ \eta_1 = 2,\ \eta_2 = 3.$

Задача 2.4. *Жерлицын Богдан*



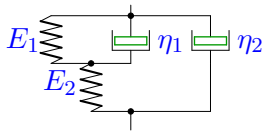
$E_1 = 1,\ E_2 = 3,\ \eta_1 = 1,\ \eta_2 = 4.$

Задача 2.5. *Зубарев Даниил*



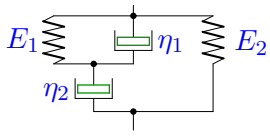
$E_1 = 1,\ E_2 = 3,\ \eta_1 = 2,\ \eta_2 = 3.$

Задача 2.6. *Кирюхин Юрий*



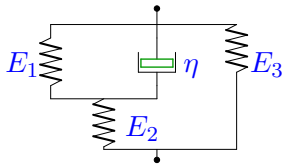
$E_1 = 3,\ E_2 = 1,\ \eta_1 = 1,\ \eta_2 = 4.$

Задача 2.7. *Коротаева Вероника*



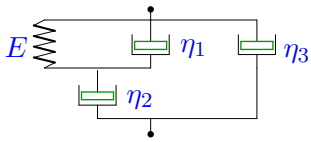
$E_1 = 2,\ E_2 = 1,\ \eta_1 = 4,\ \eta_2 = 2.$

Задача 2.8. *Кошелева Нина Павловна*



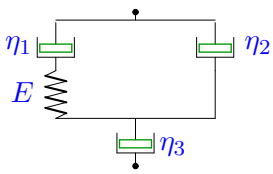
$E_1 = 3,\ E_2 = 1,\ E_3 = 2,\ \eta = 3,$

Задача 2.9. *Лукина Анна лусия*



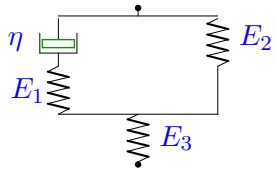
$\eta_1 = 1,\ \eta_2 = 2,\ \eta_3 = 4,\ E = 1,$

Задача 2.10. *Магомедова Алина*



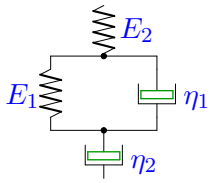
$\eta_1 = 1,\ \eta_2 = 2,\ \eta_3 = 4,\ E = 1,$

Задача 2.11. *Морозова Кристина*



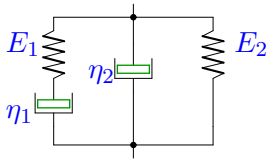
$\eta = 2,\ E_1 = 1,\ E_2 = 3,\ E_3 = 2,$

Задача 2.12. *Морозова Марина*



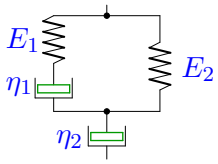
$E_1 = 1,\ E_2 = 2,\ \eta_1 = 3,\ \eta_2 = 2.$

Задача 2.13. *Нечаев Матвей*



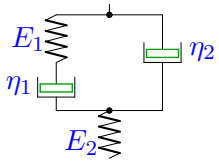
$E_1 = 3,\ E_2 = 2,\ \eta_1 = 2,\ \eta_2 = 1.$

Задача 2.14. *Никаев Рамзан*



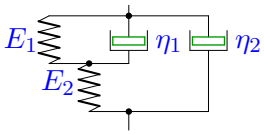
$E_1 = 2,\ E_2 = 1,\ \eta_1 = 1,\ \eta_2 = 2.$

Задача 2.15. *Плужников Денис*



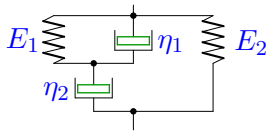
$E_1 = 1,\ E_2 = 2,\ \eta_1 = 3,\ \eta_2 = 1.$

Задача 2.16. *Пышова Кристина*



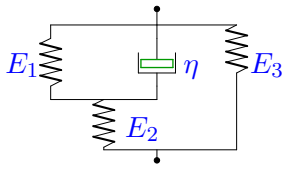
$E_1 = 1,\ E_2 = 2,\ \eta_1 = 2,\ \eta_2 = 1.$

Задача 2.17. *Сиданич Ульяна*



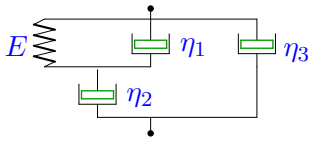
$E_1 = 1,\ E_2 = 2,\ \eta_1 = 1,\ \eta_2 = 4.$

Задача 2.18. *Суховей Анастасия*



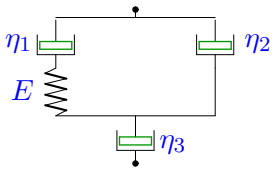
$E_1 = 3,\ E_2 = 2,\ E_3 = 3,\ \eta = 2,$

Задача 2.19. *Харламов Максим*



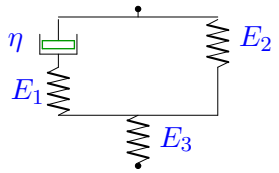
$\eta_1 = 3,\ \eta_2 = 1,\ \eta_3 = 4,\ E = 3,$

Задача 2.20. *Хуан Цинцин*



$\eta_1 = 1,\ \eta_2 = 3,\ \eta_3 = 4,\ E = 1,$

Задача 2.21. *Романова Полина*



$\eta = 3,\ E_1 = 4,\ E_2 = 2,\ E_3 = 1,$