

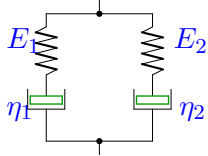
# Структурные модели среды

Вывести определяющее уравнение среды.

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

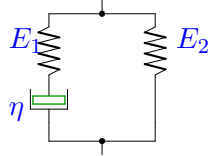
$$A_2\ddot{\sigma} + A_1\dot{\sigma} + A_0\sigma = B_2\ddot{\varepsilon} + B_1\dot{\varepsilon} + B_0\varepsilon.$$

### Задача 2.1.



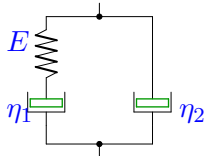
$$E_1 = 2, E_2 = 3, \eta_1 = 2, \eta_2 = 1.$$

### Задача 2.2.



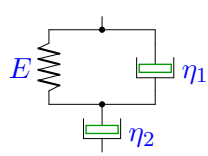
$$E_1 = 1, E_2 = 2, \eta = 1$$

### Задача 2.3.



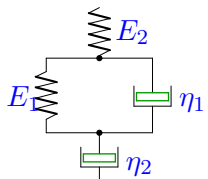
$$E = 2, \eta_1 = 2, \eta_2 = 1.$$

### Задача 2.4.



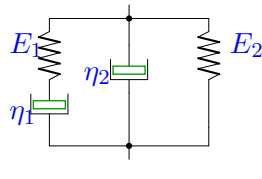
$$E = 2, \eta_1 = 1, \eta_2 = 2.$$

### Задача 2.5.



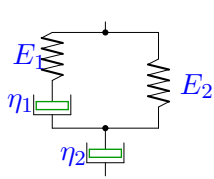
$$E_1 = 2, E_2 = 3, \eta_1 = 2, \eta_2 = 4.$$

### Задача 2.6.



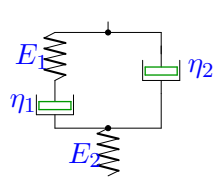
$$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 2.$$

### Задача 2.7.



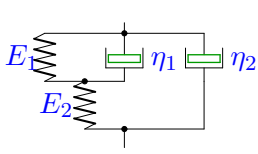
$$E_1 = 1, E_2 = 2, \eta_1 = 2, \eta_2 = 1.$$

### Задача 2.8.



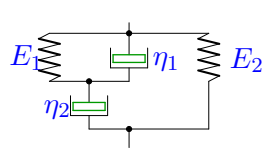
$$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 2.$$

### Задача 2.9.



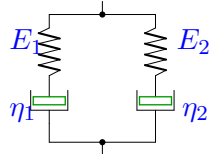
$$E_1 = 1, E_2 = 2, \eta_1 = 1, \eta_2 = 4.$$

### Задача 2.10.



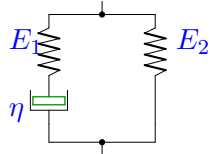
$$E_1 = 1, E_2 = 2, \eta_1 = 2, \eta_2 = 4.$$

**Задача 2.11.**



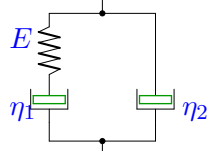
$$E_1 = 2, E_2 = 1, \eta_1 = 2, \eta_2 = 4.$$

**Задача 2.12.**



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

**Задача 2.13.**



$$E = 3, \eta_1 = 1, \eta_2 = 2.$$