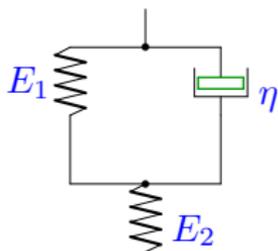


Вывести определяющее уравнение среды.

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

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

Задача



$$E_1 = 1, E_2 = 2, \eta = 4.$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\dot{\varepsilon}_1 + \dot{\varepsilon}_2 = \dot{\varepsilon}$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\dot{\varepsilon}_1 + \dot{\varepsilon}_2 = \dot{\varepsilon}$$

$$\varepsilon_1 = \varepsilon - \sigma/E_2$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\dot{\varepsilon}_1 + \dot{\varepsilon}_2 = \dot{\varepsilon}$$

$$\varepsilon_1 = \varepsilon - \sigma/E_2$$

$$\dot{\varepsilon}_1 = \dot{\varepsilon} - \dot{\sigma}/E_2$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\dot{\varepsilon}_1 + \dot{\varepsilon}_2 = \dot{\varepsilon}$$

$$\varepsilon_1 = \varepsilon - \sigma/E_2$$

$$\dot{\varepsilon}_1 = \dot{\varepsilon} - \dot{\sigma}/E_2$$

$$E_1(\varepsilon - \sigma/E_2) + \eta(\dot{\varepsilon} - \dot{\sigma}/E_2) = \sigma$$

$$\varepsilon_1 E_1 = \sigma_1$$

$$\dot{\varepsilon}_1 \eta = \sigma_1$$

$$\sigma_1 + \sigma_2 = \sigma$$

$$\varepsilon_1 E_1 + \dot{\varepsilon}_1 \eta = \sigma$$

$$\varepsilon_2 E_2 = \sigma$$

$$\dot{\varepsilon}_2 E_2 = \dot{\sigma}$$

$$\varepsilon_1 + \varepsilon_2 = \varepsilon$$

$$\dot{\varepsilon}_1 + \dot{\varepsilon}_2 = \dot{\varepsilon}$$

$$\varepsilon_1 = \varepsilon - \sigma/E_2$$

$$\dot{\varepsilon}_1 = \dot{\varepsilon} - \dot{\sigma}/E_2$$

$$E_1(\varepsilon - \sigma/E_2) + \eta(\dot{\varepsilon} - \dot{\sigma}/E_2) = \sigma$$

$$3\sigma + 2\dot{\sigma} = 4\dot{\varepsilon} + \varepsilon$$