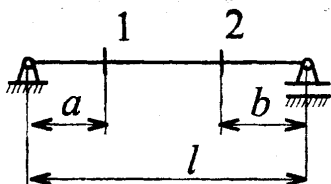
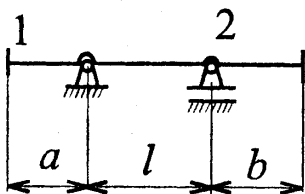


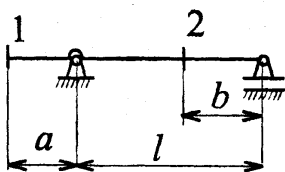
$$\begin{bmatrix} \alpha_{11} & \alpha_{12} & \gamma_{11} & \gamma_{12} \\ \alpha_{21} & \alpha_{22} & \gamma_{21} & \gamma_{22} \\ \beta_{11} & \beta_{12} & \delta_{11} & \delta_{12} \\ \beta_{21} & \beta_{22} & \delta_{21} & \delta_{22} \end{bmatrix}$$



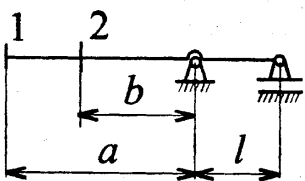
$$\begin{bmatrix} \frac{a^2(l-a)^2}{3EJl} & \frac{ab(l^2-a^2-b^2)}{6EJl} & \frac{a(l-a)(l-2a)}{3EJl} & \frac{a(a^2+3b^2-l^2)}{6EJl} \\ \frac{ab(l^2-a^2-b^2)}{6EJl} & \frac{b^2(l-b)^2}{3EJl} & \frac{b(l^2-3a^2-b^2)}{6EJl} & \frac{b(l-b)(2b-l)}{3EJl} \\ \frac{a(l-a)(l-2a)}{3EJl} & \frac{b(l^2-3a^2-b^2)}{6EJl} & \frac{l^2-3a(l-a)}{3EJl} & \frac{3a^2+3b^2-l^2}{6EJl} \\ \frac{a(a^2+3b^2-l^2)}{6EJl} & \frac{b(l-b)(2b-l)}{3EJl} & \frac{3a^2+3b^2-l^2}{6EJl} & \frac{l^2-3b(l-b)}{3EJl} \end{bmatrix}$$



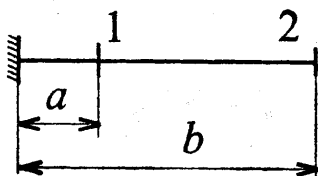
$$\begin{bmatrix} \frac{a^2(l+a)}{3EJ} & \frac{abl}{6EJ} & \frac{-a(3a+2l)}{6EJ} & \frac{al}{6EJ} \\ \frac{abl}{6EJ} & \frac{b^2(l+b)}{3EJ} & \frac{-bl}{6EJ} & \frac{b(3b+2l)}{6EJ} \\ \frac{-a(3a+2l)}{6EJ} & \frac{-bl}{6EJ} & \frac{l+3a}{3EJ} & \frac{-l}{6EJ} \\ \frac{al}{6EJ} & \frac{b(3b+2l)}{6EJ} & \frac{-l}{6EJ} & \frac{l+3b}{3EJ} \end{bmatrix}$$



$$\begin{bmatrix} \frac{a^2(a+l)}{3EJ} & \frac{ab(b^2-l^2)}{6EJl} & \frac{-a(3a+2l)}{6EJ} & \frac{a(l^2-3b^2)}{6EJl} \\ \frac{ab(b^2-l^2)}{6EJl} & \frac{b^2(l-b)^2}{3EJl} & \frac{b(l^2-b^2)}{6EJl} & \frac{b(3bl-2b^2-l^2)}{3EJl} \\ \frac{-a(3a+2l)}{6EJ} & \frac{b(l^2-b^2)}{6EJl} & \frac{3a+l}{3EJ} & \frac{3b^2-l^2}{6EJl} \\ \frac{a(l^2-3b^2)}{6EJl} & \frac{b(3bl-2b^2-l^2)}{3EJl} & \frac{3b^2-l^2}{6EJl} & \frac{l^2-3bl+3b^2}{3EJl} \end{bmatrix}$$



$$\begin{bmatrix} \frac{a^2(a+l)}{3EJ} & \frac{b(3ab-b^2+2al)}{6EJ} & \frac{-a(3a+2l)}{6EJ} & \frac{3b^2-6ab-2al}{6EJ} \\ \frac{b(3ab-b^2+2al)}{6EJ} & \frac{b^2(b+l)}{3EJ} & \frac{-b(3b+2l)}{6EJ} & \frac{-b(3b+2l)}{6EJ} \\ \frac{-a(3a+2l)}{6EJ} & \frac{-b(3b+2l)}{6EJ} & \frac{3a+l}{3EJ} & \frac{3b+l}{3EJ} \\ \frac{3b^2-6ab-2al}{6EJ} & \frac{-b(3b+2l)}{6EJ} & \frac{3b+l}{3EJ} & \frac{3b+l}{3EJ} \end{bmatrix}$$



$$\begin{bmatrix} \frac{a^3}{3EJ} & \frac{a^2(3b-a)}{6EJ} & \frac{a^2}{2EJ} & \frac{a^2}{2EJ} \\ \frac{a^2(3b-a)}{6EJ} & \frac{b^3}{3EJ} & \frac{a(2b-a)}{2EJ} & \frac{b^2}{2EJ} \\ \frac{a^2}{2EJ} & \frac{a(2b-a)}{2EJ} & \frac{a}{EJ} & \frac{a}{EJ} \\ \frac{a^2}{2EJ} & \frac{b^2}{2EJ} & \frac{a}{EJ} & \frac{b}{EJ} \end{bmatrix}$$