

Практическое занятие

23-24

Теория деформаций

Вывести уравнения Сен Венана:

$$\frac{\partial}{\partial y} \left(\frac{\partial \gamma_{xy}}{\partial z} + \frac{\partial \gamma_{yz}}{\partial x} - \frac{\partial \gamma_{zx}}{\partial y} \right) = 2 \frac{\partial^2 \varepsilon_y}{\partial x \partial z}$$

$$\frac{\partial}{\partial z} \left(\frac{\partial \gamma_{xz}}{\partial y} + \frac{\partial \gamma_{yz}}{\partial x} - \frac{\partial \gamma_{xy}}{\partial z} \right) = 2 \frac{\partial^2 \varepsilon_z}{\partial x \partial y}$$

