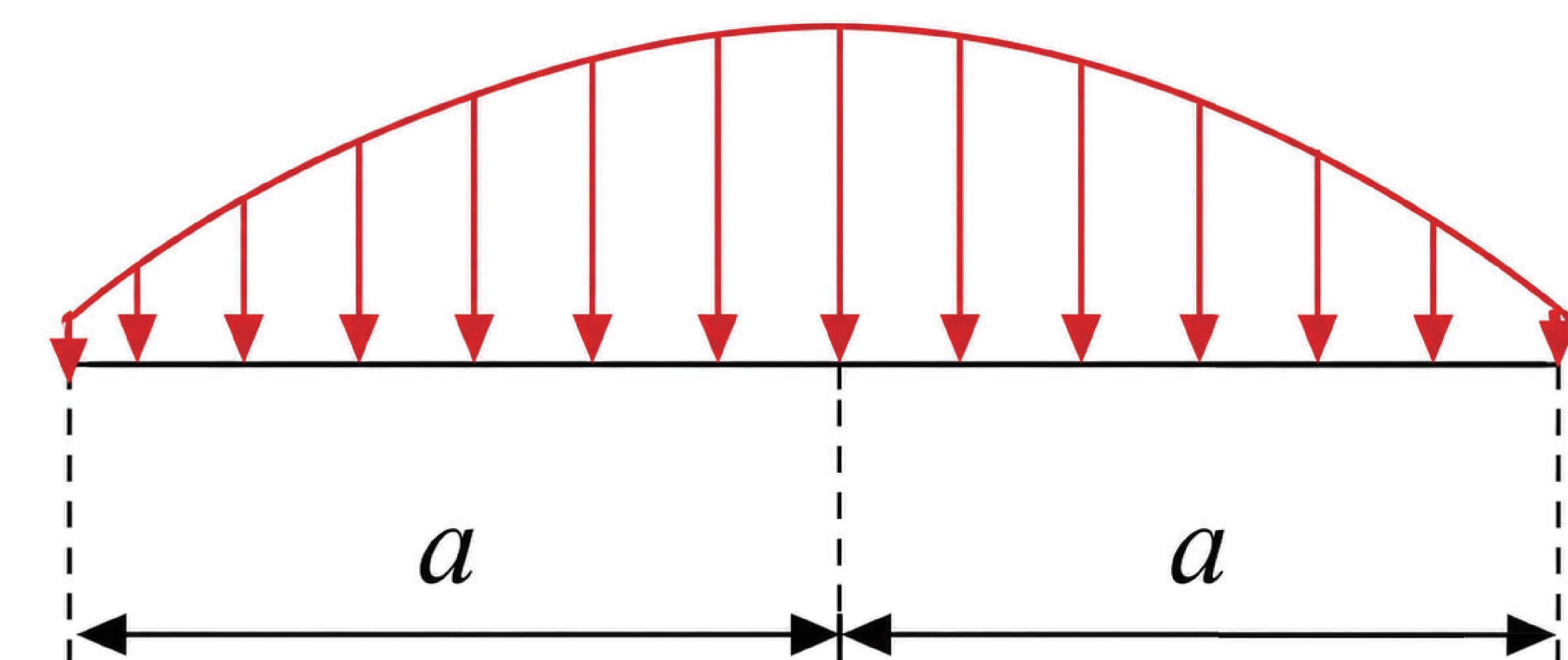
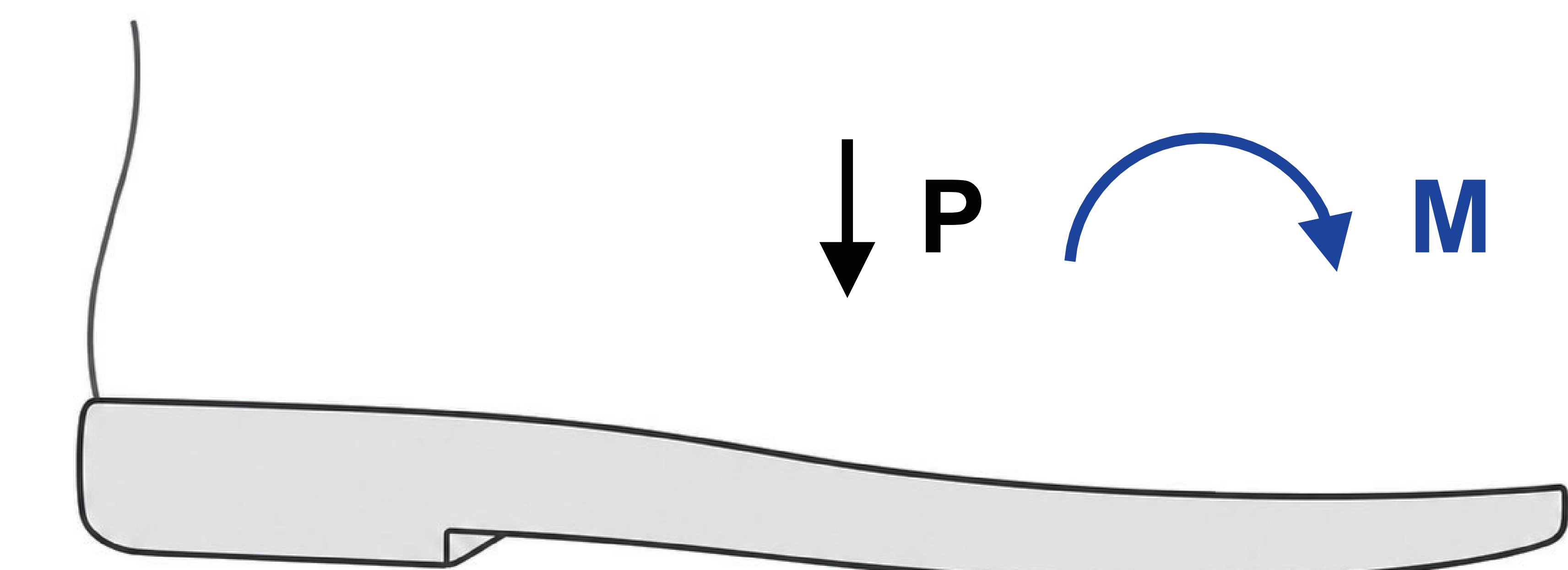
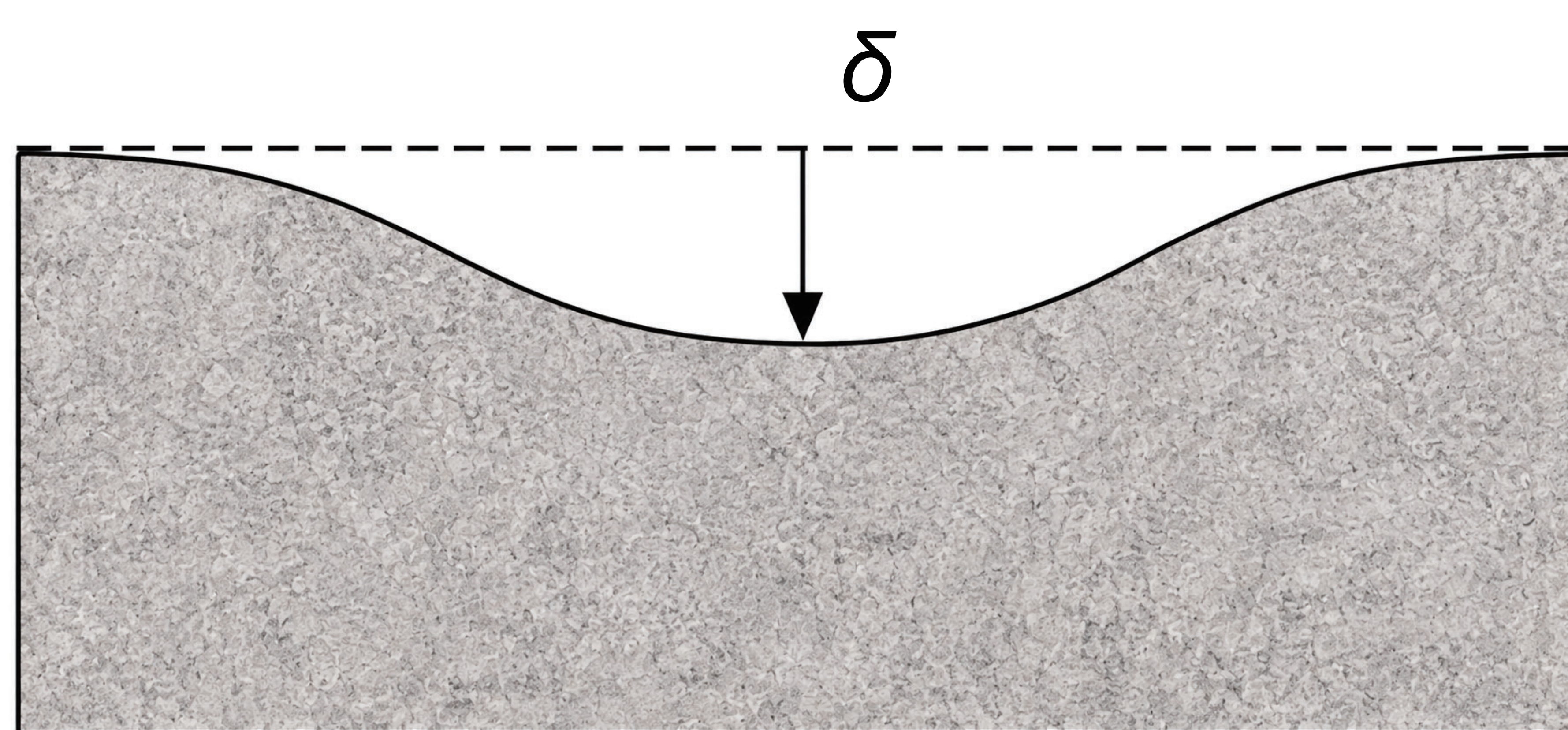
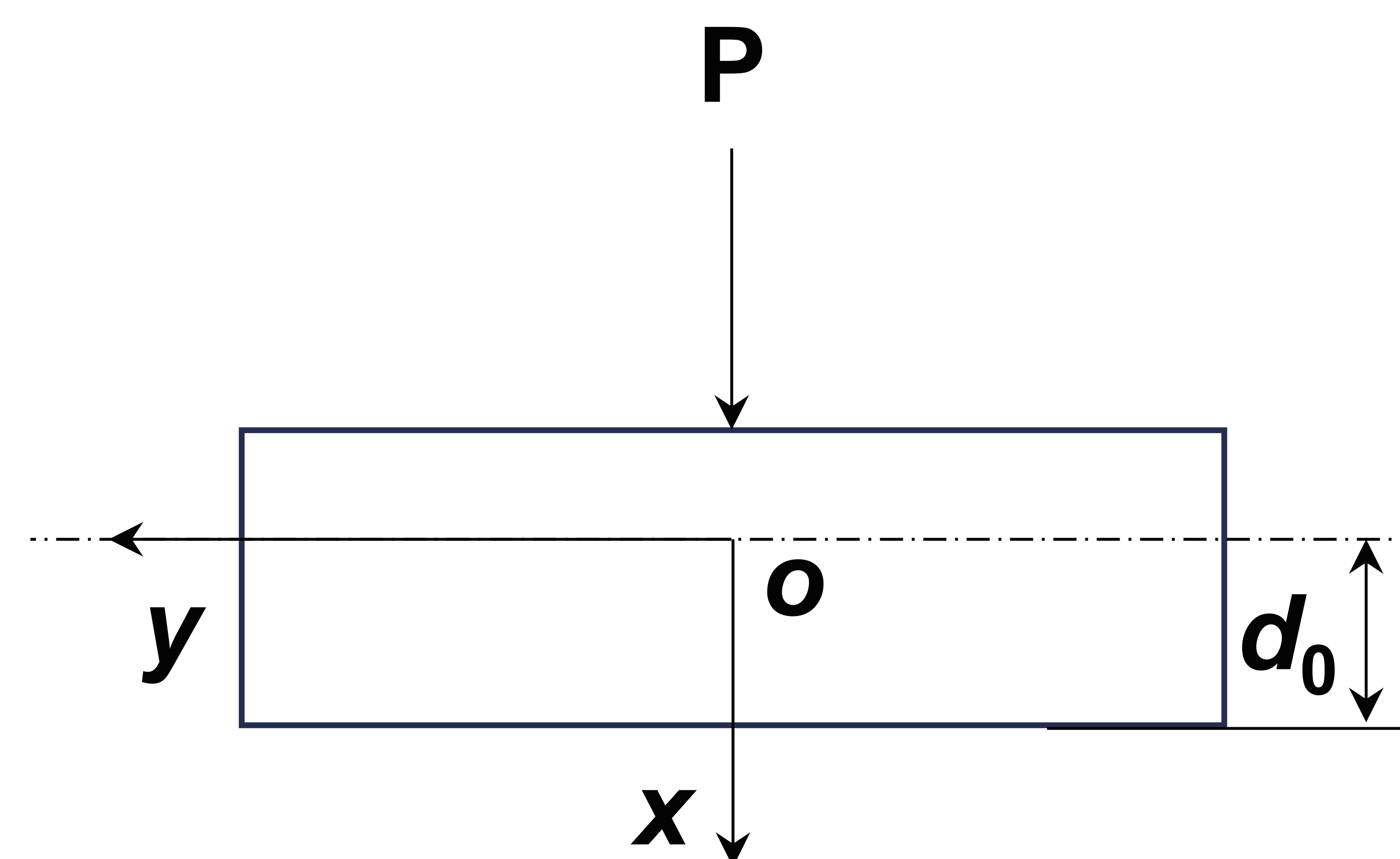


**(a)**

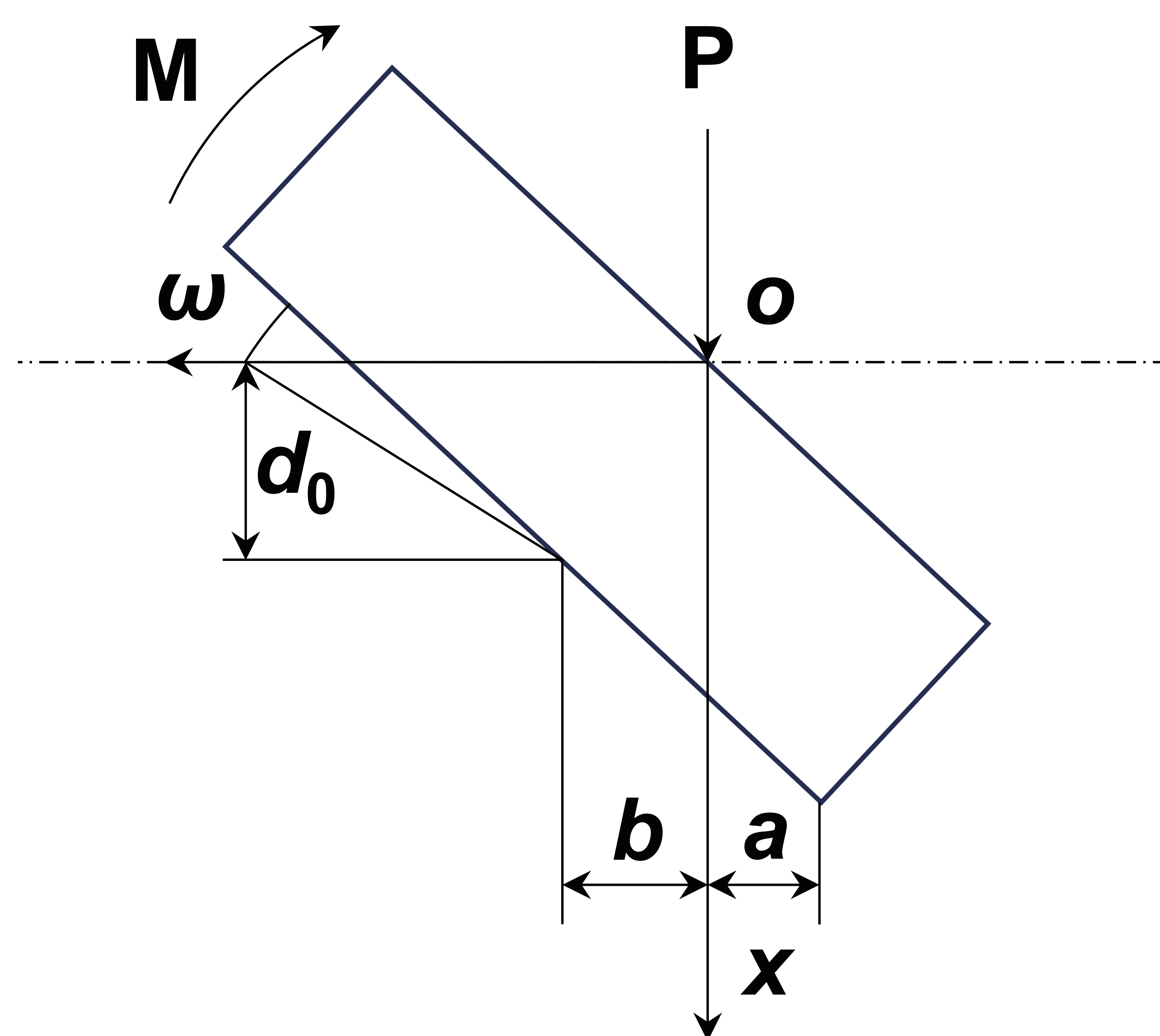
Contact pressure



Local deformation



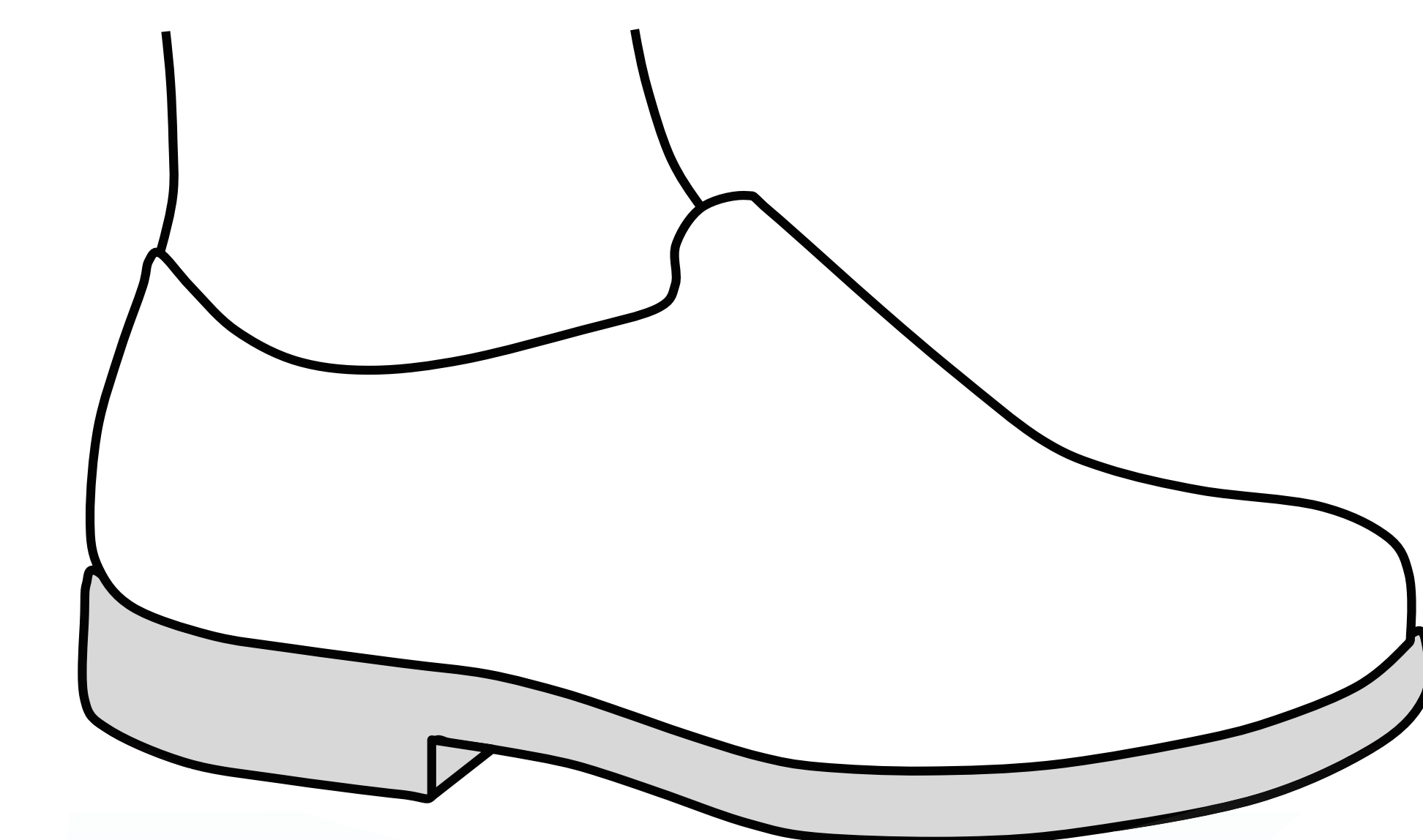
(a1) Plane pressure



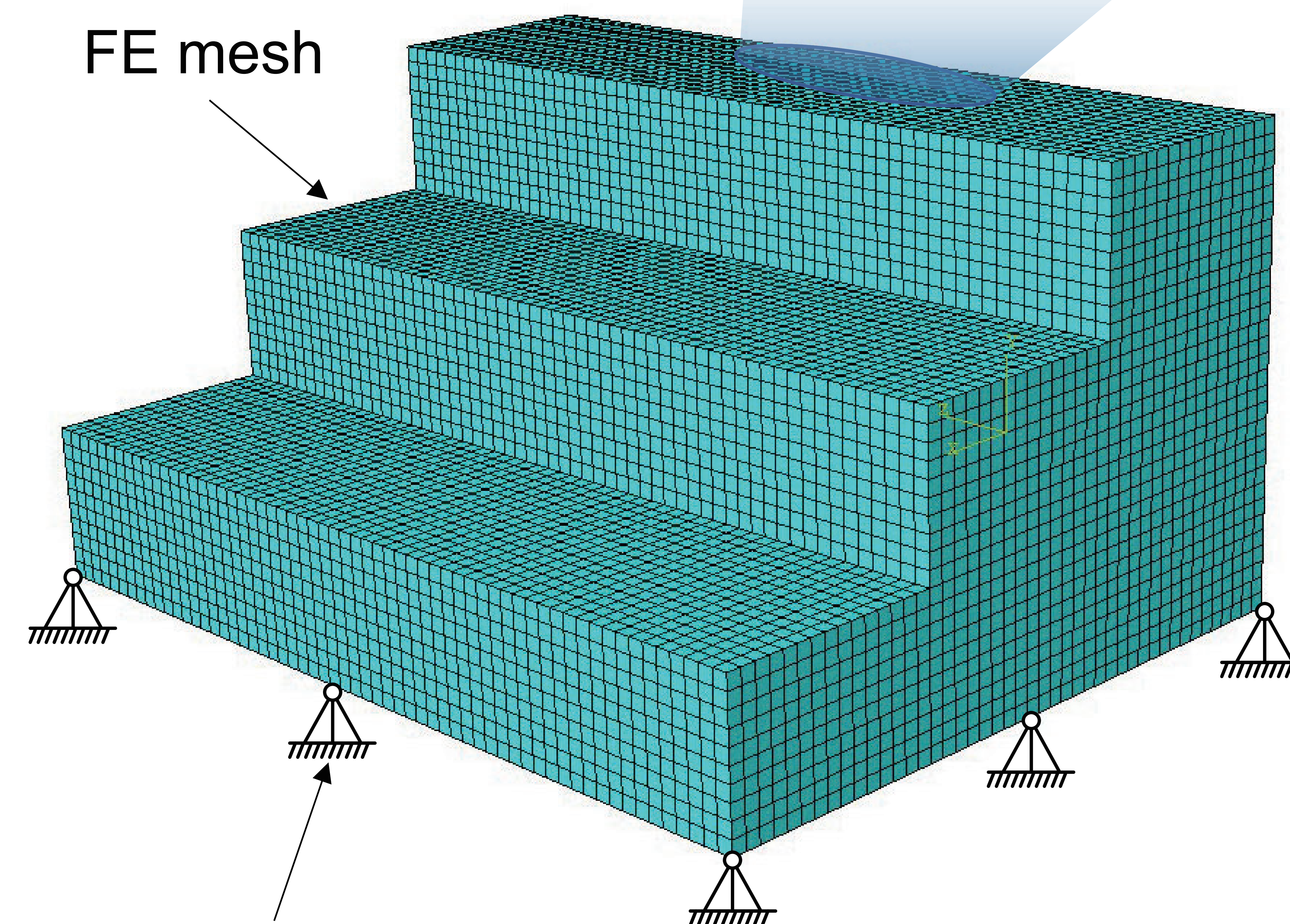
(a2) Slope pressure

**(b)****FE model material properties**

- Young's modulus  $E = 60 \text{ GPa}$
- Poisson's ratio  $\nu = 0.22$
- Density  $\rho = 2700 \text{ kg/m}^3$



FE mesh



Boundary condition