The resulted mathematical model of the subject of this research

$x := 0, 50 .. 1200$

Ustup

$H1 := 250 \qquad h1 := 75 \qquad d1 := 700 \qquad \sigma1 := 0.15$

$$g1(x) := G \cdot \sigma1 \cdot \left[\pi \cdot (H1 - h1) + 2 \cdot H1 \cdot \operatorname{atan}\left[\frac{(x - d1)}{H1}\right] - 2 \cdot h1 \cdot \operatorname{atan}\left[\frac{(x - d1)}{h1}\right] + (x - d1) \cdot \ln\left[\frac{(x - d1)^2 + H1^2}{(x - d1)^2 + (h1)^2}\right] \right]$$

Shar1

$R2 := 100 \qquad h2 := 375 \qquad d2 := 400 \qquad \sigma2 := 0.6$

$$g2(x) := G \cdot \sigma2 \cdot \frac{4 \cdot \pi \cdot R2^3}{3} \cdot \frac{h2}{\sqrt{\left[(x - d2)^2 + (h2)^2\right]^3}}$$

Shar2

$R3 := 75 \qquad h3 := 200 \qquad d3 := 800 \qquad \sigma3 := 0.6$

$$g3(x) := G \cdot \sigma3 \cdot \frac{4 \cdot \pi \cdot R3^3}{3} \cdot \frac{h3}{\sqrt{\left[(x - d3)^2 + (h3)^2\right]^3}}$$

$g(x) := g1(x) + g2(x) + g3(x)$