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Optimisation of L/D Ratio.

- material Volume
- Cost of material

(elliptical head) @ 2t



Let the diameter - D
length - L.

$$\text{Volume of material} = (\pi D L)t + \left(\frac{\pi D^2}{4}\right)t + \left(\frac{\pi D^2}{4}\right) \times 2t$$

$$V = t \left[\pi D L + \frac{\pi D^2 t}{2} \right] \quad \text{--- (i)}$$

$$\text{Volume of } \cancel{\text{sheet}} \text{ Container} = \left[\frac{\pi D^2}{4} \right] \cdot L$$

$$L = \frac{4V}{\pi D^2}$$

$$V = t \left[\pi \cancel{D} \times \frac{4V}{\pi D^2} + \frac{\pi D^2 t}{2} \right]$$

$$V = t \left[\frac{4V}{D} + \frac{\pi D^2 t}{2} \right]$$

$$\left[\frac{PD}{2f_j} + C \right]$$

$$V = \left[\frac{PD}{2f_j} + C \right] \left[\frac{4V}{D} + \frac{\pi D^2 t}{2} \right]$$

$$\frac{dV}{dD} = 0 + \frac{2PV}{f_j} - \frac{P\pi D^3}{4f_j} + \frac{4VC}{D} + \frac{\pi D^2 C}{2}$$

$$\frac{dV}{dD} = 0 + \frac{2P\pi D^2}{4f_j} - \frac{4VC}{D^2} + \pi D C = 0$$

Optimization Engineering Notes

Janusz Kacprzyk, Witold Pedrycz



Optimization Engineering Notes:

Optimization Engineering Notes Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Optimization Engineering Notes**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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