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Page

Optimisation of L/D Ratio.

- material Volume
- Cost of material

(elliptical head) @ 2t



Let the diameter - D
length - L.

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

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

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

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

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

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

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

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

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

Optimization Engineering Notes

Kathleen Armour



Optimization Engineering Notes:

The Enigmatic Realm of **Optimization Engineering Notes**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Optimization Engineering Notes** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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