

1/09/22

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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

LL Leslie



Optimization Engineering Notes:

Enjoying the Tune of Phrase: An Emotional Symphony within **Optimization Engineering Notes**

In some sort of eaten by monitors and the ceaseless chatter of instant communication, the melodic splendor and mental symphony created by the prepared term often fade into the back ground, eclipsed by the constant noise and disruptions that permeate our lives. But, located within the pages of **Optimization Engineering Notes** a stunning literary treasure brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts readers on an emotional trip, skillfully unraveling the concealed songs and profound affect resonating within each carefully crafted phrase. Within the depths with this poignant assessment, we can explore the book is central harmonies, analyze its enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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