

1/09/22

27/09/2022
Date
Page

Optimisation of L/D Ratio.

- material Volume
- Cost of material

(elliptical head) @ 2t



Let the diameter - D
length - L

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

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

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

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

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

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

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

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

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

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

Optimization Engineering Notes

A Loxley



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Table of Contents Optimization Engineering Notes

1. Understanding the eBook Optimization Engineering Notes
 - The Rise of Digital Reading Optimization Engineering Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Optimization Engineering Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Optimization Engineering Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optimization Engineering Notes
 - Personalized Recommendations

- Optimization Engineering Notes User Reviews and Ratings
- Optimization Engineering Notes and Bestseller Lists
- 5. Accessing Optimization Engineering Notes Free and Paid eBooks
 - Optimization Engineering Notes Public Domain eBooks
 - Optimization Engineering Notes eBook Subscription Services
 - Optimization Engineering Notes Budget-Friendly Options
- 6. Navigating Optimization Engineering Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Optimization Engineering Notes Compatibility with Devices
 - Optimization Engineering Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Optimization Engineering Notes
 - Highlighting and Note-Taking Optimization Engineering Notes
 - Interactive Elements Optimization Engineering Notes
- 8. Staying Engaged with Optimization Engineering Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Optimization Engineering Notes
- 9. Balancing eBooks and Physical Books Optimization Engineering Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Optimization Engineering Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Optimization Engineering Notes
 - Setting Reading Goals Optimization Engineering Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Optimization Engineering Notes
 - Fact-Checking eBook Content of Optimization Engineering Notes

- Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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