

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.

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

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

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

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

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

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

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

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

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

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

Optimization Engineering Notes

Judd E. Hollander



Optimization Engineering Notes:

The book delves into Optimization Engineering Notes. Optimization Engineering Notes is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Optimization Engineering Notes, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Optimization Engineering Notes
 - Chapter 2: Essential Elements of Optimization Engineering Notes
 - Chapter 3: Optimization Engineering Notes in Everyday Life
 - Chapter 4: Optimization Engineering Notes in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Optimization Engineering Notes. The first chapter will explore what Optimization Engineering Notes is, why Optimization Engineering Notes is vital, and how to effectively learn about Optimization Engineering Notes.
 3. In chapter 2, the author will delve into the foundational concepts of Optimization Engineering Notes. The second chapter will elucidate the essential principles that need to be understood to grasp Optimization Engineering Notes in its entirety.
 4. In chapter 3, the author will examine the practical applications of Optimization Engineering Notes in daily life. The third chapter will showcase real-world examples of how Optimization Engineering Notes can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Optimization Engineering Notes. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Optimization Engineering Notes.

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