

Chapter 1

Overview of Finite Element Method

1.1

$$S^{(L)} = n r \quad \text{with } r = 2 R \sin\left(\frac{1}{2} \cdot \frac{2\pi}{n}\right) = 2 R \sin \frac{\pi}{n}$$

$$S^{(u)} = n s \quad \text{with } s = 2 R \tan\left(\frac{1}{2} \cdot \frac{2\pi}{n}\right) = 2 R \tan \frac{\pi}{n}$$

Using series expansions of $\sin \theta$ and $\tan \theta$

$$\sin \theta = \theta - \frac{\theta^3}{3!} + \frac{\theta^5}{5!} - + \dots$$

$$\tan \theta = \theta + \frac{\theta^3}{3} + \frac{2}{15} \theta^5 + \dots$$

we find

$$S^{(L)} = 2 n R \left(\frac{\pi}{n} - \frac{1}{6} \frac{\pi^3}{n^3} + \dots \right)$$

$$= 2 \pi R - \frac{\pi^3 R}{3 n^2} + \dots$$

and

$$S^{(u)} = 2 n R \left(\frac{\pi}{n} + \frac{1}{3} \frac{\pi^3}{n^3} + \dots \right)$$

$$= 2 \pi R + \frac{2}{3} \frac{\pi^3 R}{n^2} + \dots$$

Since the true value of S is given by $2\pi R$, we have

$$S^{(L)} \leq S \leq S^{(u)}$$



Finite Element Method Solution Manual

Camilla Rothe



Finite Element Method Solution Manual:

Finite Element Method Solution Manual Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Finite Element Method Solution Manual**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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