

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

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



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