

a) RESULT ECCENTRICITY (e)

$$AR = (1.8 - 0.9) + e$$

$$= 0.9 + e$$

$$BR = [2.4 - (1.8 + e)]$$

$$= 0.6 - e$$

$$P_A AR = P_B (B) R$$

$$194,400 (0.9 + e) = 363,400 (0.6 - e)$$

$$\boxed{e = 0.191 \text{ m}}$$



b) S.P. max



$$I_{yy} = \frac{1.8 (3.0)^3}{12}$$

$$A = (1.8)(3.0)$$

$$e = 0.191 \text{ m}$$

$$P_R = P_A + P_B$$

$$P_R = (194,400) + (363,400)$$

$$P_R = 557,800$$

$$\frac{P_R}{A} + \frac{P_R (e)}{I_{yy}}$$

$$= \frac{557,800}{1.8(3.0)} + \frac{557,800 (0.191)}{\left[\frac{1.8 (3.0)^3}{12} \right]} \quad (18)$$

$$\boxed{S.P. \text{ max} = 101,723.25 \text{ kg/m}^2}$$

c) S.P. min

$$S.P. \text{ min} = \frac{P_R}{A} - \frac{P_R (e)}{I_{yy}}$$

$$= \frac{557,800}{1.8(3.0)} - \frac{557,800 (0.191)}{\left[\frac{1.8 (3.0)^3}{12} \right]} \quad (18)$$

$$\boxed{S.P. \text{ min} = 52,599.74 \text{ kg/m}^2}$$

Geotechnical Engineering Problems And Solutions

Marco Cascella



Geotechnical Engineering Problems And Solutions:

Geotechnical Engineering Problems And Solutions Book Review: Unveiling the Power of Words

In some sort of 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 could be the essence of the book **Geotechnical Engineering Problems And Solutions**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published 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 impact on readers.

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