

**Highway Engineering II**  
**Exercises I**

1. For homogenous half space subjected to two circular loads shown below, determine the vertical stress, strain and deflection at point A, which is located 25.4cm below the center of one circle.



Stress at A due to the left loading

Vertical Stress

$$\frac{r}{a} = 0 \text{ and } \frac{z}{a} = \frac{25.4}{(25.4/2)} = 2$$

$$\Rightarrow \frac{\delta_z}{q} * 100 = 28 \dots \dots \dots \text{from graph 2.2}$$

$$\Rightarrow \delta_z = \frac{28}{100} * 350 \text{ kPa} = 98 \text{ kPa}$$

Radial stress

$$\frac{r}{a} = 0, \text{ and } \frac{z}{a} = \frac{25.4}{(25.4/2)} = 2 \Rightarrow \frac{\delta_r}{q} * 100 = 1.6 \dots \dots \dots \text{from graph 2.3}$$

$$\Rightarrow \delta_r = 5.6 \text{ kPa}$$

Tangential stress

$$\frac{r}{a} = 0, \text{ and } \frac{z}{a} = \frac{25.4}{(25.4/2)} = 2 \Rightarrow \delta_t = 5.6 \text{ kPa} \dots \dots \dots \text{from graph 2.4}$$

Stress at A due to the right loading

Vertical stress

$$\frac{r}{a} = \frac{50.8}{(25.4/2)} = 4, \text{ and } \frac{z}{a} = 2$$

$$\frac{\delta_z}{q} * 100 = 0.76 \Rightarrow \delta_z = 2.66 \text{ kPa} \dots \dots \dots \text{from graph 2.2}$$

Radial stress

$$\frac{\delta_r}{q} * 100 = 2.6 \Rightarrow \delta_r = 9.1 \text{ kPa} \dots \dots \dots \text{from graph 2.3}$$

# Highway Engineering Solved Problems

**K Morrison**



## **Highway Engineering Solved Problems:**

## **Highway Engineering Solved Problems** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Highway Engineering Solved Problems**, a literary masterpiece that delves deep to the significance of words and their effect on 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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web the film featuring a cast of ted neeley carl anderson yvonne elliman barry dennen bob bingham larry marshall josh mostel kurt yaghjian and philip toubus centers on the conflict between judas and jesus 4 during the week of the crucifixion of jesus

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