

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

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Highway Engineering Solved Problems:

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

In a global driven by information and connectivity, the energy of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Highway Engineering Solved Problems**, a literary masterpiece that delves deep into the significance of words and their impact 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 impact on readers.

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