

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

JR Anderson



Highway Engineering Solved Problems:

Highway Engineering Solved Problems Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Highway Engineering Solved Problems**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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