

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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Table of Contents Highway Engineering Solved Problems

1. Understanding the eBook Highway Engineering Solved Problems
 - The Rise of Digital Reading Highway Engineering Solved Problems
 - Advantages of eBooks Over Traditional Books
2. Identifying Highway Engineering Solved Problems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Highway Engineering Solved Problems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Highway Engineering Solved Problems
 - Personalized Recommendations
 - Highway Engineering Solved Problems User Reviews and Ratings
 - Highway Engineering Solved Problems and Bestseller Lists

5. Accessing Highway Engineering Solved Problems Free and Paid eBooks
 - Highway Engineering Solved Problems Public Domain eBooks
 - Highway Engineering Solved Problems eBook Subscription Services
 - Highway Engineering Solved Problems Budget-Friendly Options
6. Navigating Highway Engineering Solved Problems eBook Formats
 - ePub, PDF, MOBI, and More
 - Highway Engineering Solved Problems Compatibility with Devices
 - Highway Engineering Solved Problems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Highway Engineering Solved Problems
 - Highlighting and Note-Taking Highway Engineering Solved Problems
 - Interactive Elements Highway Engineering Solved Problems
8. Staying Engaged with Highway Engineering Solved Problems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Highway Engineering Solved Problems
9. Balancing eBooks and Physical Books Highway Engineering Solved Problems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Highway Engineering Solved Problems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Highway Engineering Solved Problems
 - Setting Reading Goals Highway Engineering Solved Problems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Highway Engineering Solved Problems
 - Fact-Checking eBook Content of Highway Engineering Solved Problems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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