

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

F Rizvi



Highway Engineering Solved Problems:

The book delves into Highway Engineering Solved Problems. Highway Engineering Solved Problems is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Highway Engineering Solved Problems, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Highway Engineering Solved Problems
- Chapter 2: Essential Elements of Highway Engineering Solved Problems
- Chapter 3: Highway Engineering Solved Problems in Everyday Life
- Chapter 4: Highway Engineering Solved Problems in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Highway Engineering Solved Problems. This chapter will explore what Highway Engineering Solved Problems is, why Highway Engineering Solved Problems is vital, and how to effectively learn about Highway Engineering Solved Problems.

3. In chapter 2, the author will delve into the foundational concepts of Highway Engineering Solved Problems. This chapter will elucidate the essential principles that must be understood to grasp Highway Engineering Solved Problems in its entirety.

4. In chapter 3, this book will examine the practical applications of Highway Engineering Solved Problems in daily life. The third chapter will showcase real-world examples of how Highway Engineering Solved Problems can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Highway Engineering Solved Problems in specific contexts. The fourth chapter will explore how Highway Engineering Solved Problems is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Highway Engineering Solved Problems. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Highway Engineering Solved Problems.

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