

Subject: Structural Steel and Timber Design

Code: SST260S

Worksheet 1: Introduction to Engineering Design and Loads

Q.1 What do you understand by Engineering Design?

Q.2 What are different types of loads considered in the design of structure? Name each of them.

Q.3 Explain the permanent load (q_k) and Variable load (Q_k) as per SANS 10160-2.

Q.4 Calculate the total self-weight of 100mm x 100mm x 100 mm nominal reinforced concrete cube?

Q.5 A one-way floor of a residential hostel building with the dimension 2.25m x 5m is supported on two-beam (Fig 1). The floor occupancy is a room of hostel building. The thickness of the 2% reinforced concrete floor is 150 mm with floor finishing of 25mm thick teak wood. Calculate the Ultimate load on the beam and draw the shear force and bending moment diagram. (Use SANS 10160-2 for imposed load based on its subcategory.)

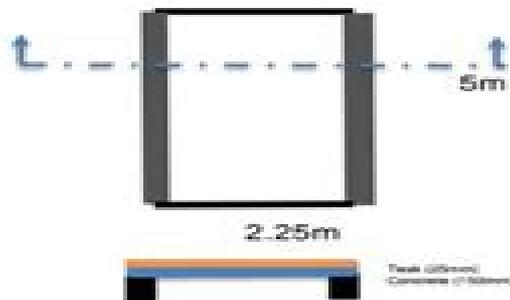


Figure 1

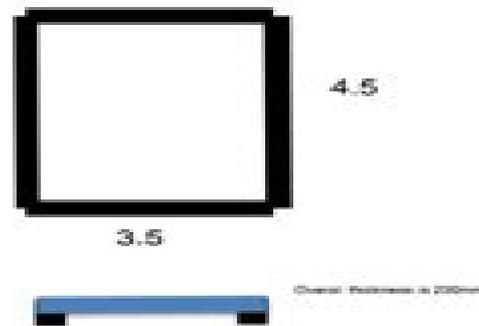


Figure 2

Q.6. Calculate Service load on floor of the Library building with a dimension 6.5m x 4.5m is supported on all its four sides with a beam. The floor is made up of reinforced concrete (2% reinforcement) and floor finish of 30 mm granite. The floor occupancy level is for a stack for books in the library. The sides of the slab are continuously fixed. Find out the equivalent load on all sides beams. The overall thickness of the floor is 230 mm. (Use SANS 10160-2 for imposed load based on its subcategory.)

Steel And Timber Design Solved Problems

Lingjun Ying



Steel And Timber Design Solved Problems:

The book delves into Steel And Timber Design Solved Problems. Steel And Timber Design 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 Steel And Timber Design Solved Problems, encompassing both the fundamentals and more intricate discussions.

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

- Chapter 1: Introduction to Steel And Timber Design Solved Problems
- Chapter 2: Essential Elements of Steel And Timber Design Solved Problems
- Chapter 3: Steel And Timber Design Solved Problems in Everyday Life
- Chapter 4: Steel And Timber Design Solved Problems in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Steel And Timber Design Solved Problems. The first chapter will explore what Steel And Timber Design Solved Problems is, why Steel And Timber Design Solved Problems is vital, and how to effectively learn about Steel And Timber Design Solved Problems.

3. In chapter 2, the author will delve into the foundational concepts of Steel And Timber Design Solved Problems. This chapter will elucidate the essential principles that need to be understood to grasp Steel And Timber Design Solved Problems in its entirety.

4. In chapter 3, the author will examine the practical applications of Steel And Timber Design Solved Problems in daily life. The third chapter will showcase real-world examples of how Steel And Timber Design Solved Problems can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Steel And Timber Design Solved Problems in specific contexts. The fourth chapter will explore how Steel And Timber Design Solved Problems is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Steel And Timber Design 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 Steel And Timber Design Solved Problems.

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