

# 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.)

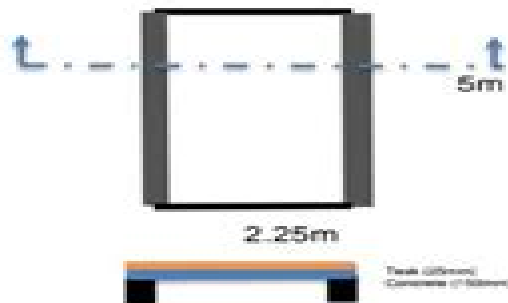


Figure 1

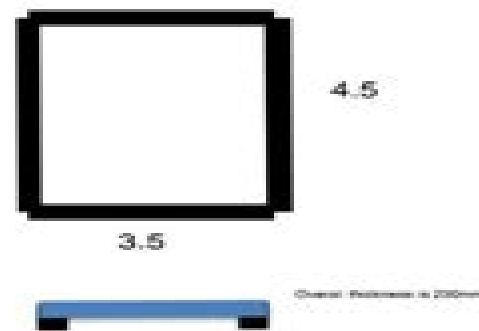


Figure 2

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

**Jin-Ying Zhang**



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## **Table of Contents Steel And Timber Design Solved Problems**

1. Understanding the eBook Steel And Timber Design Solved Problems
  - The Rise of Digital Reading Steel And Timber Design Solved Problems
  - Advantages of eBooks Over Traditional Books
2. Identifying Steel And Timber Design 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 Steel And Timber Design Solved Problems
  - User-Friendly Interface
4. Exploring eBook Recommendations from Steel And Timber Design Solved Problems
  - Personalized Recommendations
  - Steel And Timber Design Solved Problems User Reviews and Ratings
  - Steel And Timber Design Solved Problems and Bestseller Lists

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