

BASIC CONCEPTS OF CIVIL ENGINEERING

Important units & points –

1. 25 KN/Cum is unit weight of concrete.
2. 78.5 KN/Cum is unit weight of steel.
3. 10 KN/Cum is unit weight of water.
4. 1 cement bag is 50 kgs.
5. Standard size of brick is 19cm × 9cm × 9cm.
6. Piles transfer the loads by friction or by end bearing.
7. Slope of stairs shall not exceed 40 degrees.
8. Preferably limit the number of steps to 12 per flight.
9. 1 cum volume has 500 no. of bricks.

Construction materials –

The basic construction materials are

1. Cement – Cement is basically obtained by grinding the stones containing lime & clay. Cement is the binder which helps in the bonding of cement, sand along with water. Some of the very important types of cement are
 - Low heat cement used generally in construction of dams.
 - Sulphate resisting cement used in corrosive type environment. E.g., Sewage contact surfaces.
 - Rapid hardening cement, &
 - Quick setting cement.
2. Aggregate – Fine aggregate & coarse aggregate are generally two types of aggregates. Fine aggregate is the one that passes through 4.75mm sieve & retained on 0.075mm sieve. E.g., Sand etc. Coarse aggregate is the one that retains on 4.75mm IS sieve. E.g., Gravel etc.

Civil Engineering Principles And Practices

B Lingard



Civil Engineering Principles And Practices:

Unveiling the Magic of Words: A Overview of "**Civil Engineering Principles And Practices**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Civil Engineering Principles And Practices**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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Table of Contents Civil Engineering Principles And Practices

1. Understanding the eBook Civil Engineering Principles And Practices
 - The Rise of Digital Reading Civil Engineering Principles And Practices
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Principles And Practices
 - 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 Civil Engineering Principles And Practices
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Principles And Practices
 - Personalized Recommendations
 - Civil Engineering Principles And Practices User Reviews and Ratings

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