

## **CE8401 CONSTRUCTION TECHNIQUES AND PRACTICES**

### **UNIT I CONSTRUCTION TECHNIQUES**

Structural systems - Load Bearing Structure - Framed Structure - Load transfer mechanism – floor system - Development of construction techniques - High rise Building Technology - Seismic effect - Environmental impact of materials – responsible sourcing - Eco Building (Green Building) - Material used - Construction methods - Natural Buildings - Passive buildings - Intelligent(Smart) buildings - Meaning - Building automation - Energy efficient buildings for various zones-Case studies of residential, office buildings and other buildings in each zones.

### **UNIT II CONSTRUCTION PRACTICES**

Specifications, details and sequence of activities and construction co-ordination – Site Clearance – Marking – Earthwork - masonry – stone masonry – Bond in masonry - concrete hollow block masonry – flooring – damp proof courses – construction joints – movement and expansion joints – pre cast pavements – Building foundations – basements – temporary shed – centering and shuttering – slip forms – scaffoldings – de-shuttering forms – Fabrication and erection of steel trusses – frames – braced domes – laying brick – weather and water proof – roof finishes – acoustic and fire protection

### **UNIT III SUB STRUCTURE CONSTRUCTION**

Techniques of Box jacking – Pipe Jacking -under water construction of diaphragm walls and basement-Tunneling techniques – Piling techniques - well and caisson - sinking cofferdam - cable anchoring and grouting - driving diaphragm walls, sheet piles - shoring for deep cutting - well points -Dewatering and stand by Plant equipment for underground open excavation.

### **UNIT IV SUPER STRUCTURE CONSTRUCTION**

Launching girders, bridge decks, off shore platforms – special forms for shells - techniques for heavy decks – in-situ pre-stressing in high rise structures, Material handling - erecting light weight components on tall structures - Support structure for heavy Equipment and conveyors - Erection of articulated structures, braced domes and space decks.

### **UNIT V CONSTRUCTION EQUIPMENT**

Selection of equipment for earth work - earth moving operations - types of earthwork equipment - tractors, motor graders, scrapers, front end loaders, earth movers – Equipment for foundation and pile driving. Equipment for compaction, batching, mixing and concreting - Equipment for material handling and erection of structures – types of cranes - Equipment for dredging, trenching, tunneling.

### **TEXTBOOKS :**

1. Peurifoy, R.L., Ledbetter, W.B. and Schexnayder, C., "Construction Planning, Equipment and Methods", 5th Edition, McGraw Hill, Singapore, 1995.
2. Arora S.P. and Bindra S.P., "Building Construction, Planning Techniques and Method of Construction", Dhanpat Rai and Sons, 1997.
3. Varghese, P.C. "Building construction", Prentice Hall of India Pvt. Ltd, New Delhi, 2007.

### **REFERENCES:**

1. Jha J and Sinha S.K., "Construction and Foundation Engineering", Khanna Publishers, 1999.
2. Sharma S.C. "Construction Equipment and Management", Khanna Publishers New Delhi, 2002.

# Civil Engineering Material And Construction Practices Notes

**Judd E. Hollander**



## **Civil Engineering Material And Construction Practices Notes:**

The book delves into Civil Engineering Material And Construction Practices Notes. Civil Engineering Material And Construction Practices Notes is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Civil Engineering Material And Construction Practices Notes, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Civil Engineering Material And Construction Practices Notes
    - Chapter 2: Essential Elements of Civil Engineering Material And Construction Practices Notes
    - Chapter 3: Civil Engineering Material And Construction Practices Notes in Everyday Life
    - Chapter 4: Civil Engineering Material And Construction Practices Notes in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of Civil Engineering Material And Construction Practices Notes. The second chapter will elucidate the essential principles that need to be understood to grasp Civil Engineering Material And Construction Practices Notes in its entirety.
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  6. In chapter 5, the author will draw a conclusion about Civil Engineering Material And Construction Practices Notes. 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 Civil Engineering Material And Construction Practices Notes.

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