

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.

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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

John R. Dunlap



Civil Engineering Material And Construction Practices Notes:

The Advances in Civil Engineering Materials Mokhtar Awang, Mohamed Hasnain Isa, 2018-09-17 This volume presents a compilation of research works in civil engineering All manuscripts in this volume were presented during the 2nd International Conference on Architecture and Civil Engineering ICACE 2018 which was held at Parkroyal Hotel Penang Malaysia on 09 10 May 2018 The editor s of the proceeding would like to express the utmost gratitude and thanks to all reviewers in the technical team for making this volume a success

Materials for Civil and Construction Engineers Michael S. Mamlouk, John P. Zaniwski, 2013 For courses in Civil Engineering Materials Construction Materials and Construction Methods and Materials offered in Civil Environmental or Construction engineering departments This introduction gives students a basic understanding of the material selection process and the behavior of materials a fundamental requirement for all civil and construction engineers performing design construction and maintenance The authors cover the various materials used by civil and construction engineers in one useful reference limiting the vast amount of information available to the introductory level concentrating on current practices and extracting information that is relevant to the general education of civil and construction engineers A large number of experiments figures sample problems test methods and homework problems gives students opportunity for practice and review

Building Materials and Construction Misra, Anil Kumar, 2018-03 Building Materials and Construction is primarily written for the students of Civil Engineering to make them familiar with building materials and construction practices to build their interest in the field The book starts with explanation of building material concepts and goes on to explain all the important materials like Lime Bricks Cement Timber Concrete etc in separate chapters following the same flow as prescribed in major universities Special emphasis is given on construction materials such as foundation work stone and brick masonry plastering work door and window design roof and floors DPC etc

Advances in Civil Engineering Materials Ar Meor Mohammad Fared Bin Meor Razali, Mokhtar Awang, Seyed Sattar Emamian, 2021-04-29 This book presents selected articles from the 4th International Conference on Architecture and Civil Engineering 2020 held in Kuala Lumpur Malaysia Written by leading researchers and industry professionals the papers highlight recent advances and address the current issues in the fields of civil engineering and architecture

Advanced Topics in Mechanics of Materials, Structures and Construction Erasmo Carrera, Faramarz Djavanroodi, Muhammad Asad, 2023-09-01 The book presents 81 papers referring to the properties and applications of technologically important materials Topics covered include material characterization environmental impact probabilistic assessment failure analysis vibration analysis AI based predictions conceptual models thermo mechanical properties numerical models design and simulation industrial performance and failure analysis Keywords Laminated Sandwich Shell Polymer Nanocomposite Cellular Glass Foam Porous Spherical Shells Cracks Between Dissimilar Materials Soil Stabilization Dynamic Strain Aging Composite Plates Recycled Concrete Aggregates Preparation Characterization of

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