

THUMB RULES IN CIVIL ENGINEERING

| TYPE | THUMB RULE |
|--|---|
| CONSTRUCTION MATERIALS | |
| CONCRETE MIX RATIO | 1:2:4 |
| NUMBER OF BRICKS PER CUBIC METRE | 500 |
| QUANTITY OF STEEL PER CUBIC METRE | 0.15 |
| WATER CEMENT RATIO | 0.45 (NORMAL CONCRETE), 0.40 (HIGH STRENGTH CONCRETE) |
| STEEL TYPICAL DESIGN | |
| BEAM AND SLAB DEPTH AS PER | 1% TO 1.5% |
| COLUMN DESIGN DIMENSION | MINIMUM 9 INCHES, MAXIMUM 24 INCHES |
| FOOTING SIZE AND DEPTH | SHALLOW DEPTH > 1% OF BREADTH, DEEP DEPTH > 2.5% OF BREADTH |
| CARTONAGE AND DELIVERY | |
| DELIVERY RATE PER HOUR | 2.5% (CUBIC METRES PER HOUR) |
| PLUMBING AND DRAINAGE | |
| VOLUME OF CARTONAGE FOR EXCAVATED AREA | EXCAVATED FACTOR IN 10% |
| SLOPE FOR DRAINAGE PIPES | HORIZONTAL AND VERTICAL 1:100 |
| ROOF TRUSS SIZE CALCULATION | 100 LITRES PER BEDROOM |
| ROAD CONSTRUCTION | |
| ROAD GRADIENT CALCULATION | FLAT TERRAIN 1% TO 1.5% GRADE, 1% TO 1.5% SLOPED |
| ROADWAY THICKNESS | LIGHT TRAFFIC 100 MM, HEAVY TRAFFIC UP TO 200 MM |
| REINFORCEMENT IN CONCRETE | |
| PERCENTAGE OF REINFORCEMENT | BEAMS AND COLUMNS 1% OF CROSS SECTIONAL AREA |
| LAP LENGTH FOR REINFORCEMENT | 40 TIMES THE DIAMETER OF THE BAR USED IN ALL STRUCTURES |
| ESTIMATION AND COSTING | |
| RATE OF CONSTRUCTION MATERIAL | 500-600 PER SQUARE METRE |
| BUILDING CONSTRUCTION COST ESTIMATION | BUILT UP AREA x AVERAGE COST PER SQUARE METRE |



Civil Engineering Thumb Rules

Michael Hoelscher



Civil Engineering Thumb Rules:

Structural and Civil Engineering Design William Addis,2016-12-05 The importance of design has often been neglected in studies considering the history of structural and civil engineering Yet design is a key aspect of all building and engineering work This volume brings together a range of articles which focus on the role of design in engineering It opens by considering the principles of design then deals with the application of these to particular subjects including bridges canals dams and buildings from Gothic cathedrals to Victorian mills constructed using masonry timber cast and wrought iron

Architect's Portable Handbook John Patten ("Pat") Guthrie,2003-03-21 Compiles all the rules of thumb and referenced facts to provide a convenient one stop resource for builders and architects Updated to include new cost information and coverage of the latest International Building and NFPA National Fire Protection Association Codes Hundreds of diagrams charts tables checklists details and other design data for building materials components and assemblies Structured to follow typical job progression this resource covers initial planning and estimating through design and construction *SSC Junior Engineer Online Exam 2026: CIVIL Engineering SOLVED PAPERS TECHNICAL & NON-TECHNICAL* GSNNotes, SSC Junior Engineer Online Exam 2026 CIVIL Engineering SOLVED PAPERS TECHNICAL NON TECHNICAL Book Details Edition 2026 No of Pages 900 Language English **Navy Civil Engineer** ,1965 *Mining and Scientific Press* ,1907 **The Cornell Civil Engineer** ,1910 Includes transactions of the Association **Journal of Electricity** ,1907 **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1923 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904 *Proceedings of the American Society of Civil Engineers* American Society of Civil Engineers,1923

Electrochemical and Metallurgical Industry Eugene Franz Roeber,Howard Coon Parmelee,1907 *Construction Project Management* Kumar Neeraj Jha,2011 Construction Project Management deals with different facets of construction management emphasizing the basic concepts that any engineering student is supposed to know The major principles of project management have been derived through real life case studies from the field Simplified examples have been used to facilitate better understanding of the concepts before going into the large and complex problems The book features computer applications Primavera and MS Project used to explain planning scheduling resource leveling monitoring and reporting it is highly illustrated with line diagrams cash flow diagrams bar diagrams line graphs to make the book interactive and easy to understand the pedagogy includes solved examples and chapter end exercises comprising both descriptive and non descriptive questions real life examples from sites of Delhi Metro construction Delhi International Airport construction and many more and case studies on preparation of documents for ISO 9001 2000 construction disputes accidents in the construction industry and preparation of estimates for live projects Perspectives in Civil Engineering Jeffrey S. Russell,2003-01-01 This report contains 27 papers that serve as a testament to the state of the art of civil engineering at the

outset of the 21st century as well as to commemorate the ASCE's Sesquicentennial. Written by the leading practitioners, educators, and researchers of civil engineering, each of these peer-reviewed papers explores a particular aspect of civil engineering knowledge and practice. Each paper explores the development of a particular civil engineering specialty, including milestones and future barriers, constraints, and opportunities. The papers celebrate the history, heritage, and accomplishments of the profession in all facets of practice, including construction, facilities, special structures, engineering mechanics, surveying and mapping, irrigation and water quality, forensics, computing, materials, geotechnical engineering, hydraulic engineering, and transportation engineering. While each paper is unique, collectively they provide a snapshot of the profession while offering thoughtful predictions of likely developments in the years to come. Together, the papers illuminate the mounting complexity facing civil engineering, stemming from rapid growth in scientific knowledge, technological development, and human populations, especially in the last 50 years. An overarching theme is the need for systems-level approaches and consideration from undergraduate education through advanced engineering materials, processes, technologies, and design methods and tools. These papers speak to the need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure economy, society, and the need to work for more sustainable, life-cycle-oriented solutions. While embracing the past and the present, the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession.

The Civil Engineer's Pocket-book John Cresson Trautwine, 1913 **Public Works and Journal of Civil Engineering**, 1912 Van Nostrand's Engineering Magazine, 1885 **Expert Systems in Civil Engineering** International Association for Bridge and Structural Engineering, Italian Group, 1989 *Pacific Builder & Engineer*, 1925 The Advanced Engineer Manual, 1930 **Proceedings**, 1923 *The Elements of Civil Engineering* International Correspondence Schools, 1899

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