

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	0.90
WATER CEMENT RATIO	0.45 (NORMAL CONCRETE), 0.40 (HIGH STRENGTH CONCRETE)
STEEL TYPICAL DESIGN	
BEAM AND SLAB DEPTH RATIO	100 TO 120
COLUMN DESIGN DIMENSION	MINIMUM 9 INCHES, MAXIMUM 24 INCHES
FOOTING SIZE AND DEPTH	SHALLOW DEPTH > 10 X BREADTH, DEEP DEPTH > 2 X BREADTH
EARTHWORK AND EXCAVATION	
EXCAVATION RATE PER HOUR	2.50 CUBIC METRE PER HOUR
DRAINAGE AND DRAINAGE	
VOLUME OF EARTHWORK FOR EXCAVATED AREA	SUBGRADE FACED TO 1:2
SLOPE FOR DRAINAGE DITCH	HORIZONTAL AND VERTICAL 1:100
ROOF RAMP SLOPE CALCULATION	RAVELLING PER BEDROOM
ROAD CONSTRUCTION	
ROAD GRADIENT CALCULATION	FLAT TERRAIN 100 HILL SLOPE 100 OR STEEPER
ROADWAY THICKNESS	LIGHT TRAFFIC 150 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	500-550 PER SQUARE METRE
BUILDING CONSTRUCTION COST ESTIMATION	BUILT UP AREA X AVERAGE COST PER SQUARE METRE



Civil Engineering Thumb Rules In Building Construction

Arthur Bell



Civil Engineering Thumb Rules In Building Construction :

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 drawings. *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.

Civil Engineering (Objective Questions) Sudesh K Jain, This book covers a wide range of multiple choice questions MCQs from various competitive exams in engineering viz GATE IES ESE SSC RRB PSU AMIE and other relevant exams. This book covers over 5000 MCQs with hints and answers and over 350 numerical problems with basic theory all spreading over 1000 pages. Overall this book is a Swiss knife for preparing well for various engineering exams both academic and career based. The book contains 28 chapters covering the following categories: Strength of Materials Structural Analysis R C C Structures Steel Structures Soil Mechanics Foundation Engineering Fluid Mechanics Water Resources Engineering Water Supply Engineering Waste Water Engineering Surveying Building Materials Building Construction Highway Planning Traffic Engineering Railway Engineering.

Civil Engineering Assistant (Theory) Mr. Rohit Manglik, 2024-05-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels.

HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Arthur Bell, 2007-09-26 The Latest Information and Tricks of the Trade for Achieving First Rate HVAC Designs on Any Construction Job. HVAC Equations Data and Rules of Thumb presents a wealth of state of the art HVAC design information and guidance ranging from air distribution to piping systems to plant equipment. This popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards. Featuring an outline format for ease of use, the Second Edition of this all in one sourcebook contains Updated HVAC codes and standards including the 2006 International Building Code. Over 200 equations for everything from ductwork to air handling systems ASME and ASHRAE code specifications. Over 350 rules of thumb for cooling heating ventilation and more. New material including coverage of the new single body of construction codes now used throughout the

country Inside This Updated HVAC Design Guide Definitions Equations Rules of Thumb for Cooling Heating Infiltration Ventilation Humidification People Occupancy Lighting and Appliance Equipment Cooling Load Factors Heating Load Factors Design Conditions and Energy Conservation HVAC System Selection Criteria Air Distribution Systems Piping Systems General Hydronic Glycol Steam Steam Condensate AC Condensate Refrigerant Central Plant Equipment Air Handling Units Chillers Boilers Cooling Towers Heat Exchangers Auxiliary Equipment Fans Pumps Motors Controllers Variable Frequency Drives Filters Insulation Fire Stopping Automatic Controls Building Automation Systems Equipment Schedules Equipment Manufacturers Building Construction Business Fundamentals Architectural Structural and Electrical Information Conversion Factors Properties of Air and Water Designer s Checklist Professional Societies and Trade Organizations References and Design Manuals Cleanroom Criteria and Standards **American Architect** ,1902 Disaster Management in India

Rajendra K. Pandey,2023-11-20 This book explores policies structures and processes of disaster management in India examining key theoretical foundations of disaster management with practical illustrations and case studies The book offers a comprehensive understanding of disaster management policies and practices in India and focuses on public policy approaches in addressing critical issues and challenges facing the machinery and processes of disaster management in India The creative approach to deal with different aspects of disaster management has helped in holistic delineation of a number of critical themes such as legal frameworks of disaster management good practices use of innovative approaches and technology multilateral cooperation the role of civil society organisations among others This book will be of interest to the students and researchers working in the field of disaster studies geography geology development studies public administration public policy economics and governance It will also be an invaluable companion for policy makers practitioners academicians and development planners working in the area of disaster management *Construction Engineering Design Calculations and Rules of Thumb* Ruwan Abey Rajapakse,2016-09-02 Construction Engineering Calculations and Rules of Thumb begins with a brief but rigorous introduction to the mathematics behind the equations that is followed by self contained chapters concerning applications for all aspects of construction engineering Design examples with step by step solutions along with a generous amount of tables schematics and calculations are provided to facilitate more accurate solutions through all phases of a project from planning through construction and completion Includes easy to read and understand tables schematics and calculations Presents examples with step by step calculations in both US and SI metric units Provides users with an illustrated easy to understand approach to equations and calculation methods

Heating and Cooling of Buildings T. Reddy,Jan F. Kreider,Peter S. Curtiss,Ari Rabl,2016-09-01 Heating and Cooling of Buildings Principles and Practice of Energy Efficient Design Third Edition is structured to provide a rigorous and comprehensive technical foundation and coverage to all the various elements inherent in the design of energy efficient and green buildings Along with numerous new and revised examples design case studies and homework problems the third

edition includes the HCB software along with its extensive website material which contains a wealth of data to support design analysis and planning Based around current codes and standards the Third Edition explores the latest technologies that are central to design and operation of today s buildings It serves as an up to date technical resource for future designers practitioners and researchers wishing to acquire a firm scientific foundation for improving the design and performance of buildings and the comfort of their occupants For engineering and architecture students in undergraduate graduate classes this comprehensive textbook Alternate & Innovative Construction Systems for Housing , 2nd Ed BMTPC,2025-08-01 India being one of the fastest growing economies in the world is witnessing transformative changes in terms of public investment private consumption structural reforms leading construction sector to reach 1 4 trillion by 2025 Coupled with rapid urbanization climate change Nationally Determined Contributions NDCs in terms of reduction of emission intensity by 30 35% by 2030 to achieve net zero emission by 2070 the business as usual approach for building the urban infrastructure including housing need to superseded by cutting edge innovative productive technologies nurturing fast track affordable sustainable resilient growth The ubiquitous conventional construction practices of cast in situ brick mortar RCC construction shall have to be replaced by industrialized building systems comprising of off site construction techniques such as precast concrete construction prefabricated steel construction customized formworks sandwich panels 3D printing PPVC supplemented by digitalization BIM cloud computing construction robotics etc To bring perceptible changes the way we build Ministry of Housing Urban Affairs MoHUA Govt of India with BMTPC as technical partner conceptualized organized Global Housing Technology Challenge India GHTC India through which 54 new construction systems which are time tested proven globally are identified as potential future building technologies for the country being promoted across the country The six light house projects were also undertaken under PMAY U to showcase the effectiveness of these systems adapt them for further replication In order to build capacities and for better outreach wider advocacy amongst building professionals about the new and emerging building materials and technologies for construction MoHUA along with SPA New Delhi BMTPC introduced an online certificate course on Innovative Construction Technologies entitled NAVARITI New Affordable Validated Research Innovation Technologies for Indian Housing As regards innovative systems information is available in bits and pieces and there are no textbooks available summarizing all these systems therefore the reading material in form of book for the course was prepared published as first edition of the book The experts from industry academic institutions research laboratories have contributed various chapters of the book In addition information from various resources have been collected and compiled in concise form to develop the book The second edition of the book contains updated information along with few new chapters since the last publication The book is a collection of technical information available on technologies worldwide and it is the first of its kind on the subject We are sure it will help the readers to comprehend these innovative systems and implement them in their future construction projects **Proceedings of the American Society of**

Civil Engineers American Society of Civil Engineers, 1922 Vols for Jan 1896 Sept 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society's Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc A History of Civil Engineering Hans Straub, 1964 *Transactions of the American Society of Civil Engineers* American Society of Civil Engineers, 1922 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 **Technical Report - Civil Engineering Laboratory, Naval Construction Battalion Center, Port Hueneme, California** Naval Civil Engineering Laboratory (Port Hueneme, Calif.), *Computing Developments in Civil and Structural Engineering* B. Kumar, B. H. V. Topping, 1999 Contains a selection of papers presented at The Seventh International Conference on Civil and Structural Engineering and The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held concurrently from 13 15 September 1999 at Oxford England The Construction of Roads and Streets. In Two Parts. I. The Art of Constructing Common Roads Henry Law (Civil Engineer.), D. Kinnear Clark, 1887 Engineering Record, 1916 *Public Works and Journal of Civil Engineering*, 1912 **Transactions of the Association of Civil Engineers of Cornell University**, 1924 *Developments in Artificial Intelligence for Civil and Structural Engineering* B. H. V. Topping, 1995 Includes a selection of papers that were presented at the Fourth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering which was held at Cambridge England from 28 30 August 1995

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web the weld all around symbol indicates that the weld continues completely around the perimeter of the joint even for circular joint members as a reference you can always take a look at figure 34a of aws a2 4 2012 standard symbols for welding brazing and nondestructive examinations

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