

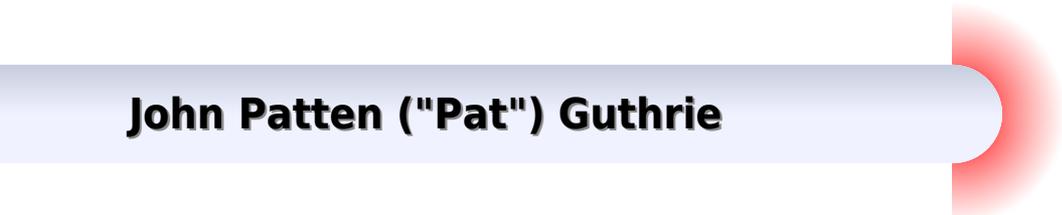
# THUMB RULES IN CIVIL ENGINEERING

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 IN FEET	100 TO 150
COLUMN DESIGN DIMENSION	MINIMUM 9 INCHES, MAXIMUM 24 INCHES
FOOTING SIZE AND DEPTH	SHOULDER DEPTH = 1/3 x BREADTH, DEEP DEPTH = 2 x B BREADTH
CARTONAGE AND DELIVERY	
DELIVERY RATE PER HOUR	2.50 (CUBIC METRE) PER HOUR
PLUMBING AND DRAINAGE	
VOLUME OF CARTONAGE PER EXCAVATED AREA	0.05 (CUBIC METRE) PER SQ. FT.
SLOPE FOR DRAINAGE PIPES	HORIZONTAL AND VERTICAL 1:100
ROOF TRUSS SIZE CALCULATION	1000 LITRES PER BEDROOM
ROAD CONSTRUCTION	
ROAD GRADIENT CALCULATION	FLAT TERRAIN 100 METRE, HILLS AREAS 100 OR STEEPER
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 In Building Construction

**John Patten ("Pat") Guthrie**



## **Civil Engineering Thumb Rules In Building Construction:**

**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 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 *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 **Practice Book (2023-24 WB PSC JE/AE Civil Engineering)** YCT Expert Team , 2023 24 WB PSC JE AE Civil Engineering Practice Book Solved Papers *American Architect* ,1902 *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 *The Engineering Record, Building Record and the Sanitary Engineer*, 1899 **Engineering Record, Building Record and Sanitary Engineer**, 1904 **The Cornell Civil Engineer**, 1923 **Engineering and Contracting** Halbert Powers Gillette, 1926 *Inland Architect Engineer and Builder*, 1911 *Engineering News-record*, 1911 **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 **The Building News and Engineering Journal**, 1911 **Architect and Engineer of California**, 1911 *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 NAVARITIH 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

*The Ohio Architect and Builder* ,1911     **The Engineering Record, Building Record & the Sanitary Engineer** ,1891     **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

*Science* John Michels (Journalist),1909 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting

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