

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), 0.30 (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	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	0.25 (CUBIC METRE) PER M ²
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 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	500-600 PER SQUARE METRE
BUILDING CONSTRUCTION COST ESTIMATION	BUILT UP AREA x AVERAGE COST PER SQUARE METRE



Civil Engineering Thumb Rules In Building Construction Pdf

David J. Fisher



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Planning & Designing Health Care Facilities in Developing Countries Shashikant Sharma, Saurabh Singh, 2024-07-16

Building a clinically integrated workplace with a high level of clinical competence requires careful considerations of Hospital Planning For greenfield or brownfield hospital projects clinicians and C Suite executives need to acquire capabilities to address the planning needs of any organization This book aims to provide both theoretical and practical inputs for the Planning Designing of Health Care Facilities in Developing Countries It clearly indicates the steps to be followed facts to be weighed and components to be considered to arrive at a correct planning solution With health reform looming and the revenue base shifting rapidly we need to integrate patient safety concerns in the design process Key Features Liberal use of tables and figures to support conclusions illustrate concepts and display quantitative information making it easier for readers to understand and refer to large quantities of data Integrates the international norms for planning and designing health care facilities into the developing country setting Handbook and ready reckoner for C Suite executives hospital engineers project consultants and hospital administration students

Routledge Handbook on Labour in Construction and Human Settlements Edmundo Werna, George Ofori, 2023-12-12 Routledge Handbook on Labour in Construction and Human Settlements presents a detailed and comprehensive examination of the relationship between labour and the built environment and synergises these critical focus areas in innovative ways This unrivalled edited collection of chapters analyses problems and presents possible solutions related to the employment and conditions of workers in the construction industry It provides comprehensive coverage of the relationship between the global workforce and the built environment and is divided into four topical areas how labour and the built environment relate to development employment generation in the built environment quality of employment in the built environment and the impact of the built environment on labour in other sectors Underpinning the entire book is the premise that the way the built environment is produced and its main products buildings cities and towns have an impact on large numbers of workers At the same time the quality of the built environment requires construction workers who are well trained and with good working conditions While cities and towns are the engines of economic growth they will not be able to fulfil their economic potential if poverty in the workforce is not addressed Those who are unemployed underemployed or work in unfavourable conditions cannot fully contribute to production and at the same time are limited in their ability to purchase goods and services therefore limiting economic growth and restricting improvements in their living standards In addition investments in infrastructure housing and inner city redevelopment cannot be sustainable if labour issues i e poverty are not addressed This book aims at analysing this complex set of issues comprehensively and will be essential reading to a wide range of researchers across the interdisciplinary intersections of construction business and management economic development urban studies sociology political science and project management

Advance Upcycling of By-products in Binder and Binder-Based Materials Mehmet Serkan Kirgiz, 2023-09-23

Advance Upcycling of By products in Binder and Binder Based Materials focuses on research trends in binder and binder based materials containing by products The book covers the properties of these materials both physical and mechanical and their durability as well as their inner structure both at the micro and nano scale The reuse of by products within binder systems is also discussed as well as innovative approaches and advanced solutions for making cost ecology and environmental friendly hydraulic binder and binder based materials from the upcycling of by products The book also looks at additive manufacturing and explains the effects of by products on the properties of binder and binder based materials As a consequence of the popularity of additive manufacturing various by product materials in terms of constructional application are also identified These include latent hydraulic supplements activators of transport properties and increase in inner strength and durability The book will be an essential reference resource for academic and industrial researchers materials scientists and civil engineers and all those who are working in the development of greener construction materials and utilization of waste and other fine by products in the production of environmentally friendly concrete Provides a detailed review of recent research on the upcycling of by products for use in binder and binder based materials Presents innovative approaches and advanced solutions for making environmentally friendly hydraulic binders and binder based materials from the upcycling of by products Includes mathematical models for strength estimation

Building and Civil Engineering Standard Forms Ian N. Duncan Wallace,1969 Greenbook ,2002 Since 1967 eleven editions of the popular Greenbook have been used as the official specification bidding and contract document for many cities counties and public agencies throughout the West New federal regulations mandate that all public construction use metric documentation This complete reference which meets this new requirement provides uniform standards of quality and sound construction practice easily understood and used by engineers public works officials and contractors across the U S Includes hundreds of charts and tables *Building and Civil Engineering. Vocabulary. Performance Characteristics, Measurement and Joints* British Standards Institute Staff,2007-07-31 Construction works Construction engineering works Vocabulary Terminology Construction systems parts Construction Buildings Performance Defects Quality assurance Properties Construction materials Measurement Quantity surveying Joints Joining processes

Standard Details: Civil Engineering (200-299) United States. Veterans Administration. Office of Construction,1976 *Terms and Rules of Practice in Architecture, Building, Carpentry, Joinery, Bricklaying & Masonry, Civil Engineering, Steam Engine and Machinery, Surveying and Levelling, Iron, Brick, Lime, and Cement Works, Mining and Quarrying* Samuel Charles Brees,1856

Rudiments of the Art of Building Edward Dobson,1890

American Standard Building Code Requirements for Excavations and Foundations American Standards Association. Sectional Committee on Building Code Requirements for Excavations and Foundations, A56,1953 *Standard on Types of Building Construction* National Fire Protection Association. Committee on Building Construction,1979

Laxton's General Specification Schal Property Services,1997 This two volume set should enable

professional and technical personnel in the construction industry produce accurate and up to date specifications Included is a library of standard editable specification clauses structured in Common Arrangement order to ensure co ordination with SMM7 Bills of Quantities measurement rules and over 6000 clauses contained in 154 work sections specifying requirements for the whole building and civil engineering process **Rules of Thumb in Engineering Practice** D. R. Woods,2005

Architectural Rules of Thumb Guidelines Publications,1975 **Code of Practice for Design of Joints and Jointing in Building Construction** British Standards Institute Staff,1993-02-01 Joints Construction systems parts Buildings Construction materials Structural design Design Dimensional changes Strips Sealing materials Gaskets Seals Life durability Movement joints Fillers Exterior walls Roofs Curtain walling Cladding buildings Precast concrete Exterior wall coverings Installation Maintenance *Papers Forming the Basis of the Report 'Long Term Research and Development Requirements in Civil Engineering'* Construction Industry Research and Information Association,198? **SAFE BUILDING**

CONSTRUCTION Louis De Coppet 1856-1913 Bergh,2016-08-26 **American Standard Building Code Requirements for Excavations and Foundations** American Standards Association. Sectional Committee on Building Code Requirements for Excavations and Foundations,1953 **Specification for Civil Engineering Materials and Construction in Estate Engineering** V. Navaratnarajah,1975 **Rules of Thumb for Engineers and Scientists** David J. Fisher,1991

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