

Epub free Civil engineering thumb rules (PDF)

thumb rule 1 thumb rule for excavation construction thumb rules excavation quantity 3 x footing concrete quantity let s take an example footing size 2 x 1mtr depth of footing 3mtr so the concrete quantity of footing 2x1x3 6m³ then excavation quantity 3 x footing concrete quantity a thumb rule in civil engineering is a general guideline or rule of thumb used to make decisions or estimates quickly it is not a precise calculation but a rough approximation based on experience and knowledge thumb rules for civil engineering in construction 1 thumb rule for concrete volume 2 thumb rule for steel quantity for slab beams footings columns 3 percentage of steel in structural members 4 thumb rules for shuttering work 5 battens quantity calculation 6 thumb rule for cement sand coarse aggregate quantity calculations 7 1 thumb rule for concrete volume the volume of concrete required 0 038 m³ square feet area example if plan area 40 x 20 800 sq m so for the plan area of 800 sq m the area the total volume of concrete required 800 x 0 038m³ 30 4m³ 2 thumb rule for steel quantity for slab beams footings columns structural engineering design rules of thumb in the early stages of a project we are often asked how large structural elements will be before we have had a chance to perform the necessary computations we have found the following rules of thumb to be useful in estimating the approximate depth of a structural member as well thumb rule 1 quantity of steel used in beam column slab footing quantity of steel for residential structure 4 5 kg to 4 75 kg per square feet commercial structure 5 kg to 5 50 kg per square feet quantity of steel in different structural members slab 1of total volume of concrete in slab at first we have to understand the meaning of the thumb rule before jumping into the discussion thumb rules are approximate value we use the thumb rules for almost every calculation like concrete calculation manpower estimation the material requirement for plastering wastage s calculation brickwork calculation etc for example the thumb rules of civil engineering often known as the thumb rule for building construction assists you in solving problems utilizing a straightforward mathematical formula and in arriving at wise conclusions when necessary a thumb rule is an approximate comparing method to calculate the quantity of different materials required for construction thumb rules play an essential role for site engineers site supervisors while making quick decisions on site home structure important thumb rules used in construction by civil engineers krishna december 14 2018 27 comments thumb rules play a most crucial role while taking quick decisions on site thumb rules enable you to calculate the solution using a simple mathematical formula and make smart decisions whenever needed table of contents the thumb rule in civil engineering is used for quick decision making and approximate estimates site engineers and supervisor are greatly benefited from thumb rules to arrive at a quick decision every civil engineer or site supervisor shall have basic knowledge about certain civil engineering basics comprehensive overview using both imperial and metric units of measurement each chapter includes design steps rules of thumb and design examples this book is meant for both professionals and for students taking structures courses or comprehensive studies rules of thumb by rowingengineer faq507 1574 posted 21 aug 09 edited 13 mar 10 thread507 267373 grad manual pdf preliminary design rules of thumb 1 the cost of reinforce concrete in place is usually somewhere between 100 m³ and 800 m³ these rules of thumb are the result of preserving and structuring the immense knowledge of experienced engineers collected and compiled by the author an experienced engineer himself into an invaluable book that helps younger engineers find their way from symptoms to causes common thumb rules for civil engineering works g k construction engineer at construction published sep 2 2020 follow thumb rules is very important for any civil engineer site thumb rules refers to an easily learned process or standard based on practical experience rather than theory it is not intended to be strictly accurate or reliable for every situation thumb rules give us the quick decisions at construction field it provides with the rules of mathematical formula and broad ideas whenever needed unveiling the power of verbal artistry an psychological sojourn through civil engineering structural design thumb rules in some sort of inundated with displays and the cacophony of fast connection the profound power and mental resonance of verbal art usually fade in to obscurity eclipsed by the constant onslaught of sound and

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