COMPREHENSIVE DESIGN FOR RCC SLABS

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What is RCC slab design? RCC slab is a structural element that provides a horizontal planar surface for floors, roofs, decks, etc., used in the construction of numerous structures. RCC slab construction involves a combination of concrete and steel reinforcement.

What is the design method of RCC structure? It is based on the behavior of structure under service load (working loads). The structure shall be designed on the basis of most critical limit state and checked for other limit states. 2. This method is assumed to be deterministic because all loads, stresses and factor of safety are known.

What are the requirements for RCC slab?

What is the basic design concept of RCC? This design concept is based on elastic theory, assuming a straight line stress distribution along with the depth of the concrete. The actual loads or working loads acting on the structure are estimated and members are proportioned on the basis of certain allowable stresses in concrete and steel.

What are the criteria for slab design?

What is the formula for slab design? 1) Trail depth and Effective span Consider 1 m width of slab and effective span shall be taken equal to c/c of beams Assume trail depth d = l /30 , 3600/30 =120 mm OR Assume Pt=0.3%, Modification factor K1 =1.2; Basic (L/d) ratio for continuous slab =26. Trail depth d=3600/(26X1. 2) = 115 mm.

What is the design code for RCC? IS 456 is the Indian standard for the design of plain and reinforced concrete structures. It was first published in 1953 and revised in 2000. It covers the general principles, materials, loads, structural analysis, design methods, and detailing of concrete structures.

What are the two design methods in reinforced concrete?

Why do we design RCC under reinforcement? In under-reinforced concrete sections, the steel reinforcement reaches the yield strain at stresses lower than the stress at which the concrete fails. Therefore, all singly reinforced RCC structures must be designed as under-reinforced sections to give adequate warning before the sections fail.

What is the formula for RCC slab? Calculation of RCC Slab For slabs = 1.0 % of concrete volume is needed. For Beam = 2 % concrete volume is needed. For column = 2.5 % of concrete volume is needed. For RCC Roads, 0.6% concrete volume is needed.

What is the best ratio for RCC slab? The typical concrete mixing ratio for slabs is 1:2:4. This means: One part cement. Two parts sand. Four parts coarse aggregate.

What is the difference between slab and RCC slab? - An RCC slab consists of a combination of concrete and steel reinforcement, where concrete provides the compressive strength and steel reinforcement provides the tensile strength. - A normal slab, on the other hand, typically refers to a plain concrete slab without any steel reinforcement.

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What is the difference between RCC and normal concrete? PCC (Plain Cement Concrete) is suitable to take only compressive loads because of its no reinforcement properties. PCC is made up of cement, sand, aggregate and water. RCC (Reinforced Cement Concrete) acts like the backbone of any structure. Its structures are

reinforced with steel bars.

What does RCC structure stand for? The full form of RCC is Reinforced Cement Concrete, a composite material made from concrete and steel reinforcement. RCC is a popular choice for construction projects because it is lightweight and easy to work with, making it a good choice for bridges and other large construction projects.

What is RCC in construction terms? RCC construction, or concrete reinforced cement, is the actual term. RCC is concrete that contains steel bars, also known as reinforcing bars. Due to the high compressive strength of concrete and the ease with which steel can be produced on-site, this formula works very well. What is Reinforced concrete or RCC?

What are the support terms for Hitachi? (1) Hitachi will provide Normal Support for a period no longer than eighteen (18) months from the date of release. If a release of software is older than eighteen (18) months, Hitachi will provide Limited Support (as defined below) for a twelve (12) month period following the end of Normal Support period.

What is dynamic provisioning in Hitachi? Hitachi Dynamic Provisioning (HDP) It provides a mechanism for grouping multiple RAID Groups of the same RAID type and same disk type into a single pool which is the DP pool. Dynamic Provisioning Volumes (DPVOLs) can be created with specified logical size (up to 60TB) on the DP pool and present it to the host.

What is the latency of VSP E590? Hitachi VSP E590 Effective capacity up to 44-178TB based on config., 144PB max raw capacity (virtualized) & up to 4M IOPS/latency as low as 66uS. All with our pioneering 100% data availability guarantee.

Which two benefits does the VSP E1090 provide to customers seeking a mid-size enterprise storage system? The VSP E1090 provides impressive capacity, best-in-class performance, and enterprise-class capabilities and resilience, along with the ease of use and price point you need to keep IT aligned with evolving business objectives.

Why did my Hitachi AC suddenly stop working? It can have several potential causes, such as dirty filters or blocked evaporator coils. If you notice reduced airflow from your air conditioner, you should first check the air filter to see if it needs replacement. If the air filter is clean, then you should check the evaporator coil for blockages.

How do I check my Hitachi AC error? Once triggered by a fault in the system, error codes are easy to find on all Hitachi HVAC products: Indoor units display them on their control screen and outdoor units display their error codes on the panel which is located behind a detachable door.

What is dynamic provisioning? Dynamic volume provisioning allows storage volumes to be created on-demand. Without dynamic provisioning, cluster administrators have to manually make calls to their cloud or storage provider to create new storage volumes, and then create PersistentVolume objects to represent them in Kubernetes.

What is Hitachi Dynamic Tiering? MANAGER AMERICAS SOLUTIONS AND PRODUCTS Page 2 Hitachi Dynamic Tiering (HDT) simplifies storage administration by automatically optimizing data placement in 1, 2 or 3 tiers of storage that can be defined and used within a single virtual volume.

What is provisioning mode? Provisioning mode Android allows an enterprise or company to set up an Android device under their management. In doing so, they can remotely monitor and control the device in question. The extent of control can vary based on the active policy of the provisioning method.

What is the best latency time? Latency is measured in milliseconds, and indicates the quality of your connection within your network. Anything at 100ms or less is considered acceptable for gaming. However, 20-40ms is optimal.

What is the highest acceptable latency? A latency of 20 ms is normal for VoIP calls; a latency of up to 150 ms is barely noticeable and therefore acceptable. Any higher than that, however, and quality starts to diminish. At 300 ms or higher, it becomes completely unacceptable.

What is visual latency? The time it takes to visually orient towards and/or look at a target.

Which two benefits can customers expect from Hitachi VSP 5200 and VSP 5600 systems? What's new? VSP 5200 / 5600 arrays add more efficiency with Hitachi engineered technology to drive data reduction performance, along with SCM tiering and full end-to-end NVMe to keep your business futureproof. Stay ahead of the game with the industry's first enterprise upgrade program.

What is VSP in cloud? The Nuage Networks Virtualized Services Platform (VSP) is the industry leading network automation platform enabling a complete range of SDN, SD-WAN, and cloud solutions.

What is the purpose of enterprise storage? An Enterprise Storage System is a centralized repository for business information. It provides a common resource for data sharing, management and protection via connections to other computer systems. Enterprise storage systems are designed to process heavy workloads of business-critical information.

What services does Hitachi provide?

What are the pillars of strength of Hitachi Solutions? We at Hitachi Solutions inherently embrace our Japanese heritage and engage with 3 things in mind. Sincerity. Harmony. Pioneering Spirit.

What are Hitachi called now? Our primary power tool brand HITACHI was also renamed HiKOKI in October that same year. We own multiple global brands including HiKOKI, Metabo, MetaboHPT, CARAT, and Sankyo Diamond.

What is the warranty on Hitachi tools? 30-Day Satisfaction Guarantee All Hitachi tools are inspected before they leave the factories to ensure the highest quality for customers. If you are not satisfied with any Hitachi tool within 30 days of purchase, please return the product with receipt to the original place of purchase for a refund or replacement.

How many questions are in the Padi Open Water final exam? Knowledge Development Each section of the manual has a knowledge review to be completed,

that will be reviewed by your Instructor and elaboration provided if necessary. There are 4 x 10 question quizzes and a final exam of 50 questions that cover the entire course.

How many times can you take the PADI final exam? How many times can students take the Final Exam? Students will be given two attempts to achieve a score of 75 percent or greater on the Final Exam. If the second attempt is not successful, students are directed to meet with their instructor to review any material they don't understand.

What happens if I fail my PADI Open Water exam? The pass mark is 75% IN EACH SECTION. If you get less than 75% in one of the five sections you will be allowed to retake that section later in the IE. If you fail in 2 or more sections, or you fail the retake, you will have to attend a later PADI Instructor Exam and repeat all written exams again.

Is the PADI Open Water exam multiple choice? A lot of people seem to worry about the open water exams, but they really don't need to. It's 50 questions multiple choice, and by the time you have to do it you will be fully prepared. Your instructor will talk to you about dive theory as part of the course, and you will cover everything that's in the exam.

Is the Padi open water test hard? The quizzes have 10 questions each and the PADI Open Water Exam has 50 questions. A lot of people worry about the exam, but I can tell you now that the PADI Open Water Exam questions are very easy. Especially if you have a great Dive Instructor, you will have nothing to worry about.

Can you retake the Padi open water exam? This is reviewed in a final test in which you must score 75% or higher. If you fail, you can retake the test.

Does PADI certification ever expire? Your PADI certification never expires; but if you haven't been diving in a while, it's better to be over-prepared than risk a problem because you forget something important. For just a knowledge review, complete eLearning. To get comfortable in the water again, also schedule time with dive professional.

What is the depth limit for PADI Open Water? PADI Open Water Divers can plan and execute dives with a certified buddy or dive professional to a maximum depth of 18 meters/60 feet. PADI Scuba Divers may only dive under the direct supervision of a PADI Professional to a maximum depth of 12 meters/40 feet.

How long does it take to complete padi open water? The PADI Open Water Diver course includes four open water dives, usually completed over two days. With your instructor by your side, you'll demonstrate the skills you learned in confined water and then explore the aquatic world.

Can I dive without my PADI card? It is therefore best to always carry your dive cards or to sign up for PADI e-cards, which are stored on an App on your phone. If you have only recently certified, the temporary card that is emailed to you by your instructor is acceptable proof.

What percent of people are scuba certified? About 2.7M Americans went scuba diving at least once in 2022, which is less than 1% of the U.S. population. Compared to 2021, the scuba diving participation rate grew by 7.3% in 2022 while remaining slightly lower than the pre-pandemic level.

Can you dive alone with PADI Open Water? Only divers with specific training, such as those with a PADI Self-Reliant Diver certification, should consider diving alone. The Self-Reliant Diver Specialty course teaches safety procedures and considerations for managing the risk of diving alone and how to plan and equip yourself for self-redundancy.

How many pool dives for PADI Open Water? After your confined water dives, you'll head to open water, where you and your instructor will make four dives, usually over two days. On these dives you'll get to explore the underwater world. You'll apply the skills you learned in confined water while enjoying what the local environment has to offer.

How difficult is it to get scuba certified? The necessary skills are not tough for most people to master. During scuba certification class, you're taught the effects of increased water pressure and safe diving practices.

What comes after PADI Open Water? PADI Certification Levels Flow Chart After Open Water Diver, divers can try different types of specialty diving in addition to or as part of their Advanced Open Water Diver training. To become a Rescue Diver or take certain specialties, an Advanced Open Water Diver certification is required.

How many dives do you need before advanced Open Water? PADI requires 5 dives on course, and the prerequisite is OWD which requires 4 open water dives. No additional logged dives are specified.

How many people have Padi open water? The Numbers It's trusted: In 50+ years of operation, PADI has certified over 29 million people. It's recognized: There are over 6,600 PADI Dive Centers and Resorts worldwide. It's the choice of diving professionals: There are over 128,000 PADI Professional divers around the world who can teach a range of PADI courses.

Is scuba diving easier than swimming? Being submerged as a diver you may think moving around underwater is hard but its not, it's actually easier than swimming on the surface you don't need to move your arms around to move about and you use less energy so after time your more relaxed.

How many dives do you need for open water? You will earn the PADI Open Water Diver certification that is recognised worldwide. You earn this license by completing 5 sessions in a diving pool or confined water, 5 knowledge development sessions, and by making 4 open water dives.

How long do you have to wait to fly after diving PADI? For a single no-decompression dive, wait at least 12 hours before flying. For multiple dives per day or multiple days of diving, wait at least 18 hours before flying. For dives requiring decompression stops, wait at least 24 hours before flying.

Is the PADI exam open book? The PADI Instructor Exam Standands Exam At the instructor exam, you will have an hour and a half to answer 50 multiple-choice questions taken from these materials. It is an open-book exam.

How long does it take to complete padi open water? The PADI Open Water Diver course includes four open water dives, usually completed over two days. With your instructor by your side, you'll demonstrate the skills you learned in confined water

and then explore the aquatic world.

How long will 60 minutes of air last at 20 meters? With that in mind, if you are at a depth of 66 feet (equivalent to roughly 20 meters), the pressure is 3 ATA (since 1 ATA is added for every 33 feet of depth). Therefore, your air will be used up three times as quickly as it was at the surface and will only last for 60/3 = 20 minutes, assuming normal breathing.

How many questions are on the PADI Nitrox exam? The actual PADI Nitrox exam consists of 25 questions that you will need to answer on a written paper. You will also need to be able to analyze the oxygen percentage of the Nitrox and learn a few simple mathematical formulas, but all of this will be covered on the course. Included: PADI Enriched Air Nitrox Manual.

How hard is the PADI online course? Super easy! I used to work as a PADI Instructor and have never had a student fail the written test. If you've done the course with an instructor and had some theory explained it's easy. Nowadays you can do the theory online(I think) and it should still not be a problem if you've done your homework.

How to contract for Agile development services? There are four main ways of contracting for Agile: T&M, Fixed Price per Sprint, Fixed Price per Story Point and Outcome based.

What are the contracting techniques for Agile? The first value in the Agile Manifesto states "Customer Collaboration over Contract Negotiation". Instead of adopting a win-lose attitude toward procurements, buyer and seller should adopt a collaborative approach based on shared-risk-reward leading to a win-win situation.

What are the 5 suitable types of contracts for an agile project? Which are suitable types of contracts for an Agile project? Cost-reimbursable contracts; Not to exceed with fixed-fee contracts; Service contracts for the series of fixed price contracts; Incentive contracts; Time-and-materials contracts.

What is the meaning of Agile contracting? In Agile contracts, the supplier and the customer collaboratively define their common assumptions regarding business value, implementation risks, expenses (effort), and costs. Based on these

assumptions, they agree on an indicative fixed price scope, which is not yet contractually binding.

What is the best type of contract for software development? Time and Materials Contracts (T&M) This is one of the most widely used contract types. It means that you pay for the number of hours a software engineer works on your project. In this case, the emphasis is on high-quality development rather than specific deadlines. One of the most straightforward types of contracts.

What are the principles of Agile contracting? An agile contract should reflect the agile mindset and principles, such as customer satisfaction, change embracement, collaboration, transparency, and flexibility. The contract should focus on delivering value and quality to the customer, rather than meeting predefined specifications and deadlines.

What are the 4 agile development methodologies? Agile development methodology There are many different forms of the agile development method, including scrum, crystal, extreme programming (XP), and feature-driven development (FDD).

Which type of contract is best to use in an agile organization? T&M contracts for Agile ensure that the vendor gets paid for the time it spends working on a project. These contracts incentivize the vendor to produce quality work as these agreements are easier for the customer to terminate than fixed-fee deals.

What are two characteristics of agile contracts?

What are three main types of software contracts? There are three types of software development contracts – Fixed Price, Time & Material (T&M), and Dedicated Team.

What are the 4 types of contracts?

What are the 7 different types of contracts in project management?

What is the difference between agile and waterfall contracting? What is the main difference between Agile and Waterfall? Agile is flexible and iterative, emphasizing continuous feedback and adaptation. Waterfall is sequential and rigid,

with distinct phases completed in order.

What type of procurement is agile contracting? Agile procurement process While agile procurement follows the same steps as traditional procurement for the most part, there is less rigidity in the process, allowing teams to work on phases simultaneously or work non-linearly. Additionally, there are more review phases built in to help them identify problems faster.

What is the difference between agile and Scrum delivery? Agile delivers software regularly for feedback, enabling continuous iteration of development and testing. Scrum delivers software after each sprint of development. Agile is suitable for smaller teams and those who prefer simplicity in design and execution. Scrum is more suited for creative and experimental approaches.

What is the hourly rate for software development contracts? More experienced software developers, such as those with 5 or more years of experience, can command hourly rates of $50 to $75 or more. For a full time software developer, the average hourly rate can be $80 to $120 or more depending on the location, experience and skills required for the role.

How do I create a software development contract? A comprehensive software development contract should clearly define the project scope, establish well-structured payment terms, and include detailed intellectual property rights clauses to ensure clarity and security for both client and developer.

How much does it cost to contract a software developer? "Enterprise Class" Custom Software Development Companies Hourly rates for Enterprise-class consultancies start around $385 per hour, but could go as high as $850 per hour, depending on the experience level of the developer/consultant.

What are five suitable types of contracts for an agile project?

How do Scrum and agile differ? The key difference between Agile and Scrum is that while Agile is a project management philosophy that utilizes a core set of values or principles, Scrum is a specific Agile methodology that is used to facilitate a project.

What are agile 4 values? The Agile Manifesto consists of four key values: Individuals and interactions over processes and tools. Working software over comprehensive documentation. Customer collaboration over contract negotiation. Responding to change over following a plan.

How do I sell my business to Agile?

How do I create a software development contract? A comprehensive software development contract should clearly define the project scope, establish well-structured payment terms, and include detailed intellectual property rights clauses to ensure clarity and security for both client and developer.

How do I create an Agile charter?

How do you create a service contract?

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