COURS AUTODESK ROBOT STRUCTURAL ANALYSIS

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What is Autodesk robot structural analysis? Robot Structural Analysis Professional is structural load analysis software that verifies code compliance and uses BIM-integrated workflows to exchange data with Revit. It can help you to create more resilient, constructible designs that are accurate, co-ordinated and connected to BIM.

What is new in robot structural 2025? Robot Structural Analysis Professional 2025 includes an updated ANSI/AISC 360-22 steel design code.

What is structural analysis in CAE? Structural analysis is the study of structures such as bridges, skyscrapers, cars, or airplanes to predict their behavior under different conditions, such as wind loads impacting a skyscraper, a snow weight on a roof, or a mechanical load on a car component.

Is Revit good for structural analysis? Globally, the importance of Revit in the structural engineering field has grown significantly. Professionals worldwide recognise the software's ability to enhance collaboration, reduce errors, and improve overall project outcomes.

Which is better, etabs or robot? I have found Robot structural analysis extremely healthy for both design and anlaysis. The report generation extremely useful and can be produced as per needs. E Tabs on the other hand is widely used in the industry and gives good results. The seperate modes for each CSI product like, building,bridge,etc.

Is autodesk robot easy to use? While Robot is challenging and at times frustrating, realize the power of your knowledge as well as the power of the software. This is a great program that can do so much and your troubleshooting abilities are building skills that your will always be able to use later on in life.

What jobs will robots take over by 2025?

What will robotics be like in 2050? As we peer into the future, specifically 2050, the robotics landscape becomes even more fascinating. Forecasts indicate that robotic prosthetics may surpass the capabilities of our biological limbs, controlled by the power of our minds.

Is robotics still growing? The industrial robot market has seen steady growth across the globe and is expected to continue growing as automation becomes ever more vital to businesses. This stems largely from mechanical automation, reducing production costs and improving efficiency.

What are the three types of structural analysis? There are three approaches to the analysis: the mechanics of materials approach (also known as strength of materials), the elasticity theory approach (which is actually a special case of the more general field of continuum mechanics), and the finite element approach.

What is the difference between FEA and structural analysis? In traditional structural analysis, the real geometry of the CAD model needs to be simplified before it can be meshed and analyzed. This simplification process can be time-consuming. On the other hand, FEA using the meshless method does not require simplification of the geometry.

How to do a CAE analysis? A typical CAE process comprises preprocessing, solving and postprocessing steps. In the preprocessing phase, engineers model the geometry (or a system representation) and the physical properties of the design, as well as the environment, in the form of applied loads or constraints.

What is the salary of Revit structural modeler? Revit Modeller salary in India ranges between ? 1.4 Lakhs to ? 8.5 Lakhs with an average annual salary of ? 4.5 Lakhs. Salary estimates are based on 781 latest salaries received from Revit Modellers.

Why is Revit so difficult? Revit is menu-driven 3D drawing software that prefers you to know the dimensions before inserting the item. This requires you think in reverse to normal. It pushes you out of your comfort zone because it requires you to think differently.

Do structural engineers use Revit or AutoCAD? The parametric features of Revit are extremely helpful for structural engineers.

What is the best structural analysis and design software?

Which is better cucumber or robot framework? Both Robot and Cucumber Frameworks are widely used in the QA industry. However, Cucumber has a major market share due to its greater benefits and programming language support. Robot Framework stands after the Cucumber.

What is the best software for robotics? As well as being an offline programming tool, RoboDK is also a great simulator. It is simple enough to allow you to easily program your robot whilst being powerful enough to handle many different use cases.

Is Autodesk Robot free for students? If you are a student or educator, you can access free Robot Structural Analysis software with an Autodesk Education plan.

Is it hard to learn Autodesk? Level of Difficulty, Prerequisites, & Cost At first glance, learning AutoCAD appears to be a daunting task. Its many powerful tools and number of commands are undoubtedly complex. But experts and the average users agree that anyone can learn AutoCAD; it just takes time and practice.

What is Autodesk Robot used for? Autodesk Robot Structural Analysis Professional helps structural engineers by providing a comprehensive set of tools to model and analyze buildings as well as other large and complex structures.

Which jobs will AI not replace?

What white collar jobs will AI replace? The Most Vulnerable and Impacted Professions Roles focused on data analysis, bookkeeping, basic financial reporting and repetitive administrative tasks are highly susceptible to automation. Jobs

involving rote processes, scheduling and basic customer service are increasingly handled by AI.

Will coding be replaced by AI? The looming question for incoming students passionate about programming is often, "Will AI replace programmers?" The short answer is no. The future of programming is not a battle between humans and AI; but rather more of a collaboration.

What jobs will AI replace by 2050?

Will AI robots replace humans? The short answer is NO. However, it can augment and expedite development. For instance, AI could generate a diagram outlining the major components of a specific device. Engineers spend a lot of time manually selecting components and discussing them with manufacturers.

Is the future of robotics a threat to the humanity? Robots will increase economic growth and productivity and create new career opportunities for many people worldwide. However, there are still warnings out there about massive job losses, forecasting losses of 20 million manufacturing jobs by 2030, or how 30% of all jobs could be automated by 2030.

How does BIM use structural analysis? Description: A process in which analytical modeling software utilizes the BIM design authoring model so to determine the behavior of a given structural system. With the modeling minimum required standards for structural design and analysis are used for optimization.

What is AutoCAD used for in structural engineering? To achieve this, you need to use tools and methods that can help you optimize your design, analyze your performance, and verify your quality. One of these tools is CAD, or computer-aided design, which is a software that allows you to create, modify, and visualize your structural models in a digital environment.

What are the advantages of robot structural analysis? The benefits of Robot Structural Analysis Professional Test wind loads in structural design before structural system changes become costly. Test the behaviour of static, modal and non-linear structures. Exchange data with Revit and other design tools.

What is Autodesk process analysis? Process Analysis software is part of the Autodesk digital prototyping solution. This web-based product helps engineers and system designers model, study, and optimize manufacturing processes.

Do civil engineers use BIM? For civil engineers, BIM is a process that incorporates all the various design disciplines and allows them to create a complete, intelligent model of the infrastructure project. BIM is the foundation for digital transformation in the civil engineering industry.

What is the difference between structural engineer and BIM models? Unlike what structural engineers might follow, BIM Engineers adopt different patterns. They manage 3D models for collaboration with other team members and for improved project efficiency in construction.

What percentage of construction uses BIM? Nearly half of the survey respondents report that BIM is used on between 76% and 100% of their projects, with almost a quarter (23%) reporting that all of their projects incorporate BIM processes.

Which software is mostly used for structural design? AutoCAD. AutoCAD is one of the most sought-after CAD software for structural engineers and architects, known for its ability to create 2D and 3D drawings. It is renowned for its advanced range of rich drafting and designing tools that aid in dealing with complex structures.

Do civil engineers use AutoCAD? Civil engineers use AutoCAD for building design to plan, design, and visualize different aspects of a construction project, such as structural, architectural, mechanical, electrical, and plumbing systems.

Is AutoCAD the same for mechanical and civil engineering? In the world of mechanical and civil engineering, AutoCAD is extremely popular but is used differently. Both mechanical and civil engineers use this tool to a great extent. However, the usage varies.

What is new in Autodesk robot 2024? Enhancements. Improved the performance for model generation with linear releases. Enabled the manual definition of Short-Period Site Coefficient Fa and Long-Period Site Coefficient Fv for spectral seismic analysis according to the Canadian NBCC 2010, US ASCE 7-16, and IBC 2018

design codes.

How does robot structural analysis work? Robot Structural Analysis Professional is structural load analysis software that verifies code compliance and uses BIM-integrated workflows to exchange data with Revit. It can help you to create more resilient, constructible designs that are accurate, coordinated, and connected to BIM.

What is ROS programming? The Robot Operating System (ROS) is a set of software libraries and tools that help you build robot applications. From drivers to state-of-the-art algorithms, and with powerful developer tools, ROS has what you need for your next robotics project. And it's all open source.

What is the difference between Autodesk and AutoCAD? Key Difference Between Autodesk and Autocad Autodesk is a company, Autocad is a product, Autocad is a flagship product from Autodesk company. GstarCAD is another CAD software that comes from another company; let us discuss some of the major difference: Autocad is a General-purpose CAD software.

Why is Autodesk certification important? Each Autodesk certification provides reliable validation of skills and knowledge and can lead to enhanced academic success, accelerated professional development, improved productivity, and increased credibility.

What can I use instead of Autodesk process analysis? We recommend ProModel by BIGBEAR.AI as an alternative option with similar capability. With ProModel, you can create the perfect factory layout before you start any building works. Design, simulate, and optimize your factory layout before you build it, using one of the world's leading computer-aided design tools.

What is the difference between JLPT N5 and N4 and N3? N4 and N5 measure understanding of basic Japanese that is mainly learned in the classroom. N1 and N2 measure understanding of Japanese used in a broad range of actual everyday scenes. N3 bridges the gap between N4/N5 and N1/N2. See "N1-N5: Summary of linguistic competence required for each level."

What is JLPTN N3 equivalent to?

Is JLPT N5 hard to pass? The JLPT has five levels: N1, N2, N3, N4 and N5. The easiest level is N5 and the most difficult level is N1. N4 and N5 measure the level of understanding of basic Japanese mainly learned in class. N1and N2 measure the level of understanding of Japanese used in a broad range of scenes in actual everyday life.

Is JLPTN N1 business level? Best for employment and higher education: JLPT N2 and N1 At the N2 and N1 levels, learners are beyond conversational level and are closer to business level Japanese. At the N2 level, they are able to read and understand materials on a variety of topics, such as newspaper and magazine articles and simple critiques.

Is JLPT N3 enough to work in Japan? The first two levels N5 and N4 are considered to be classroom-level Japanese, while N3 serves as a preparation level for the more technical and complex levels N2 and N1. So, to find a job in any way, shape, or form in Japan, it's safe to say that you'll at least need to pass N5 and N4 levels.

Is JLPT N3 equivalent to B2? use the upper-intermediate level of the language, equivalent to Japanese Language Proficiency Test level between N3 and N2, or Common European Framework of Reference for Languages level between B1 and B2.

Can I take JLPTN N4 without N5? The JLPT N4 Some people have already studied some Japanese, but have never taken the JLPT. They may prefer to skip the N5 and go directly to the N4. You need 90/180 to pass. You also must get 38/120 to pass the Vocabulary, Grammar and Reading sections, and 19/60 to pass the Listening.

Is N2 Japanese fluent? According to the exam, N1 represents "the ability to understand Japanese used in a variety of circumstances", N2 represents "the ability to understand Japanese used in everyday situations, and in a variety of circumstances to a certain degree", N3 represents "the ability to understand Japanese used in everyday ...

How long does it take to reach N5 Japanese? Like any standardized test, you'll want to spend at least three months to prepare for the test. For test-takers who don't

know kanji, you can assume it will take around 450 to 500 hours of study to pass the JLPT N5 test. Moreover, out of 450 to 500 hours, approximately 150 hours are for learning Kanji.

Can I learn N5 Japanese in 1 month? For JLPT N5, which tests you on basic Japanese that you can often learn in a classroom environment, you'll need to learn 100 kanji characters. If you learn 5-10 kanji per day, you'll be able to reach your target in around 10-20 days.

Is N5 enough to travel in Japan? N5-N4 level is sufficient enough to solo travel and handle just about every simple conversation you could hope for. You might even be able to solo an izakaya and simply do talk to locals. Google translate can do the rest. This sounds like you're soloing a final boss of sorts.

Can I pass N5 without kanji? The N5 tests very basic Japanese. You need to know and practice hiragana, katakana and your first hundred very basic kanji. In addition, you will need to know basic Japanese grammar and vocabulary.

Do JLPT results expire? The JLPT certificate never expires. Results of the old test through 2009 also continue to be valid. However, companies and educational institutions that refer to test results sometimes set a time limit on the certificate. Please inquire at individual companies and educational institutions, as necessary.

Is N2 enough to live in Japan? If you are studying Japanese it is highly recommended to aim at passing the JLPT N2. The test is hard, but there are many benefits to passing. Having a JLPT N2 certificate makes you linguistically qualified to get jobs in Japan, and also grants access to enter a Japanese university!

What is the minimum JLPT to work in Japan? The JLPT and the Job Market It consists of five levels – from N1 (advanced/fluent) to N5 (elementary). To work in a majority of companies and industries in Japan, employers expect prospective employees to have at least passed the JLPT at the N2 level.

How much does JLPT N3 cost? Cost. N1, N2 and N3 ? $95 Test fee + $$6.27 Eventbrite booking fee. N4 and N5 ? $85 Test fee + $5.74 Eventbrite booking fee.

Is JLPT really worth it? While the JLPT can be a helpful source of motivation, the last thing you want is for it to ruin your enjoyment of learning Japanese. It's an

unavoidable fact that passing the JLPT can represent a huge hurdle requiring a great deal of dedicated study.

Can I pass JLPT N3 in 1 year? The JLPT N3 exam is a challenging exam, and it requires a good understanding of Japanese grammar, vocabulary, and kanji. However, it is certainly possible to pass the exam in 1 year if you are willing to put in the hard work and dedication.

How many hours does it take to get JLPT N3?

How many people pass JLPT N3?

How many months to study JLPT N3? Recommended Study Progression for JLPT N3 Kanji and Vocabulary practice started 5-6 months before the exam date. Listening Comprehension practice started 5-6 months before the exam date. Grammar studies started 3 months before the exam date. Practice Exam studies started 1.5 months before the exam date.

Can you take JLPT N3 without N4 and N5? An introduction to the JLPT There are five levels of the JLPT. With N5 being the most basic level and N1 being the most difficult. You do not have to pass a certain level before moving on to the next level. For example, you do not have to pass the N4 before you can attempt the N3 exam.

Should I do N5 or N4? If you're struggling with the first 100 kanji, then you should stick to the N5, but if you are pretty solid with the first 300 or so, then you are ready for the N4. The N5 will test you more on hiragana and katakana than it will on kanji.

Is JLPT N3 worth anything? Although taking a JLPT N3 test is extremely difficult, it is merely one tool available to assess your proficiency in the Japanese language. If you live in Japan, the JLPT N3 will assist you in finding part-time employment, and it also serves as proof of your advancement in the Japanese language.

Is JLPT N4 good enough? In Japan, English at the JLPT N4 level is generally understood everywhere. However, there are exceptions, so JLPT N4 level Japanese will be useful in some situations.

How does pipeline pigging work? Intelligent pigs are used to inspect the pipeline with sensors and record the data for later analysis. These pigs use technologies

such as magnetic flux leakage (MFL) and ultrasound to inspect the pipeline. Intelligent pigs may also use calipers to measure the inside geometry of the pipeline.

What is pigging technology? "Pigging" is a process in which highly viscous fluids are conveyed out of pipelines. The pig is a cleaning device that is pumped through the pipeline under pressure. Thus, contaminations are conveyed out of the piping. In the oil and gas industry, usually pipelines with large diameters are in use.

What is the principle of pigging? The basic principle is that a pressure drop is created over a by-passable pig held back against a pipeline's fluid flow. The pipeline fluid passing through the pigs cleaning head is accelerated by this pressure drop, forming strong cleaning jets.

What is standard for pipeline pigging? Length – Overall pig length should generally be 1.5 – 2 times the pipe's nominal size. With a length of less than 1.5 times the nominal size, the pig may roll in the pipeline. Spacing between the extreme pig supports should therefore be no less than 1.1 times the pipe diameter.

How often should a pipeline be pigged? Frequency should be based on the particular need of the line. As a rule of thumb, the closer to production the line is, the more need there is for pigging. For example, crude oil lines that have potential for wax build up or known build up are often pigged weekly.

What are the dangers of pigging? During a pigging operation, workers are at risk of exposure to toxic chemicals, oxygen deficient environments and flammable materials. If appropriate procedures and practices are not followed workers may also be at risk of being struck by equipment propelled by high pressure gases.

How fast are pigs in the pipeline? In gas pipelines, pigging operations typically take place under normal operating pressures, and during these operations, the pigs typically travel at speeds ranging from 2 to 5 meters per second (m/s).

What material is used for pigging pipes? Utility PIGs also referred to as Mechanical PIGs are used for pipeline cleaning and gauging and can be made from a range of materials including carbon steel, foam, and Plastics.

Why is it called pigging? As the crude device went through the pipe, (whether it was the straw-and-wire device or the one with metal discs) it was reported to have

made a squealing noise, which sounded a bit like a squealing pig. And so the term 'pigging' was born!

What are the different types of pigging? The primary types of pipeline pigging include cleaning pigs, batching pigs, and inspection pigs. Cleaning pigs: Cleaning pigs are designed to remove debris, sediment, and deposits that accumulate in pipelines over time. Nivalis's innovative Ice Pigging technique uses ice as the "pig".

What valves for pigging? One of the most common valves that are piggable is Trunnion Mounted Ball Valves, also known as Shut-Off Pigging Valves. These are piggable due to their launching and receiving pig design, or otherwise known as an entry and exit point.

What is the flow rate of pigging?

What is the process of pipeline pigging? Pigging involves inserting a device (i.e., a pig) into a launcher upstream of the pipeline segment where condensates have accumulated. Pigs are typically made of materials such as plastic, urethane foams, and rubber.

Why is a pipeline tool called a pig? Early pigs were made from materials such as straw, barbed wire and leather and made a squealing sound while traveling through the pipes – for this reason, they were eventually called "pigs". The name eventually became an acronym for "Pipeline Inspection Gauge" or "Pipeline Intervention Gauge".

What are the benefits of pipeline pigging?

How long does pigging take? Most pigging operations last just a few seconds, sometimes even fractions of a second. This makes the whole pigging process extremely quick, minimising interruption to operations.

What is the mega rule for gas pipelines? The PHMSA Mega Rule, a set of regulations passed to enhance pipeline safety and reduce pipeline failures, was implemented in three parts over the past decade. PHMSA issued the Mega Rule in response to a number of incidents that highlighted the need for improved pipeline regulations.

How much does a mile of pipeline cost? A survey by BTU analytics of 9 gas pipelines in the U.S. Northeast found a range of $5.5 million - $13.14 million per mile, with a median of $8.45 million/mile, or $5.25 million/km. The pipelines were onshore and ranged from 118 to 600 miles length. The pipelines were built from 2017 to 2020.

What is pig waste called? Pig waste is a by-product of swine farming, consisting of solid and liquid components. Pig waste is called manure when it includes undigested food and bedding material in its solid form. The liquid fraction, commonly known as pig slurry, contains urine and water used for cleaning.

What do pig farms do with pig waste? Those troughs are periodically flushed into an earthen hole in the ground called a "lagoon"—which contain a mixture of water, pig excrement, pig carcasses and anaerobic bacteria. The bacteria digest the slurry and also give lagoons their pink coloration.

What is bypass pigging? Hefei General Machinery Research Institute. International Journal of Fluid Engineering. Bypass pigging is a promising strategy to improve pipeline flow assurance by eliminating pigging-generated slugs and reducing pig velocity.

How do you start a pig in a pipeline? Launching a pipeline pig: Leaving the valves open, allow it to drain completely (0 psi), and then open the closure door. Now, install the pipeline pig, allowing firm contact between the reducer, which is situated between the nominal bore section of the launcher and the barrel.

How fast are pigs in the pipeline? In gas pipelines, pigging operations typically take place under normal operating pressures, and during these operations, the pigs typically travel at speeds ranging from 2 to 5 meters per second (m/s).

How do you get a pig unstuck from a pipeline? Increase the flow rate and line pressure, but do not exceed safe limits of the pipeline. 2. Remove pressure from the line and vent or drain toward the launcher. Removing pressure allows the pig to relax to its original shape and may cause it to back up in the pipeline.

How do you track a pig in the pipeline? HPS pig detectors mount externally on the pipe being pigged. To track the pig, when a pig passes the detector, the detector

picks up the pigs magnetic field. To provide a visual indication to the operator, an LED on the detector lights as the pig travels past.

What is the Paradise of the Blind about? Paradise of the Blind is an exquisite portrait of three Vietnamese women struggling to survive in a society where subservience to men is expected and Communist corruption crushes every dream.

Why is Paradise of the Blind banned? While the author had been previously banned in Vietnam, and then unbanned, the emergence of Paradise of the Blind in 1987 and 1988 outraged Vietnamese leaders for the novel's negative portrayal of land reform.

Is Paradise of the Blind Based on a true story? Paradise of the Blind is Huong's fictional biographical account of growing up in a Vietnam still rebuilding itself after the war.

What happens at the end of Paradise of the Blind? In the end of the novel, as in life, everyone dies, and "Paradise of the Blind" concludes with Hang, so long torn between competing claims of mother and aunt, about to be left alone in the world. She has been recalling these stories of her family while she is in Russia, on the eve of her return to Vietnam.

What time period is Paradise of the Blind set in? Paradise of the Blind centers on the life of the young protagonist, Hang, as she grows up in North Vietnam between the 1950s and 1980s. In the book, Duong depicts some of the key values of Hang's culture: women's deference to men, young people's deference to their elders, and loyalty to one's family over all else.

What is the politics of Paradise of the Blind? In Paradise of the Blind's North Vietnam setting, communist ideology is central to the society. The protagonist, Hang, understands firsthand the ideas of communism from her uncle Chinh, who is a key leader of the communist reforms in her mother Que's village.

Who is Hang in Paradise of the Blind? Hang, the daughter of Ton and Que, is the narrator of the story. She is raised by her mother in poverty in Hanoi, and as a child she does not know who her father was, since her mother refuses to tell her.

Why is blind offensive? These are similar phrases and terms that use being blind to convey something negative. It uses vision impairment to describe a lack of knowledge or willful ignorance. This characterization isn't respectful of people who are blind or have a vision impairment.

Why is Paradise Lost banned? The prose was banned by King Charles II because Milton passionately and publicly opposed the two most powerful institutions of his day: the British monarchy and the established church (Anglican in England and Scotland and Catholic worldwide).

Who is the narrator in Paradise of the Blind? Hang is the protagonist and the narrator of Paradise of the Blind. Raised by her mother, Que, in Hanoi, Hang doesn't know who her father is for the first 10 years of her life.

How much of the blind side is a true story? But audiences at the time heralded The Blind Side, which was based on a book of the same name, as a tearjerker and the blueprint for a feel-good classic. Plus, it was all a true story, based on the real events in the life of Sean and Leigh Anne Tuohy and Michael Oher, who went on to play eight seasons in the NFL.

Is Paradise based on a true story? Inspired by the true story of Marguerite de La Rocque, Paradise is a gripping novel of adventure, courage, love, and hardship.

Why was Paradise of the Blind banned? Paradise of the Blind (1988) was her fourth novel. Soon after its publication, she was labeled as a "dissident writer" and was expelled from the Communist Party. She was then imprisoned in 1991 for remarks criticizing the Communist Party.

Why is it called Paradise of the Blind? The title refers to Communist leaders, who publicly spoke of and pretended to create what they called a "peasants' paradise" or a "workers' paradise," but were clearly failing in Vietnam, as they were in other Communist countries.

How did the end of Paradise end? Paradise's ending revealed that Sophie set up Elena and Max's entire relationship. She engineered the fire that burned down their apartment and put them into debt. The conniving villain even has someone who bought Max's years killed so that Max won't be able to sell more of his life to this

man.

What literary techniques are used in Paradise of the Blind? In Paradise of the Blind by Duong Thu Huong, the use of style, technique, and structure work in tandem to emphasize Hang's journey to find her own individual purpose. By using circular writing, symbols, and setting, Huong establishes the theme that one must find one's own purpose.

Where is the book Paradise set? The novel is set in East Africa (in what becomes Tanzania) and perhaps can be seen as a story of the pre World War I years as the colonial "Scramble for Africa" starts to impact. The main protagonist – albeit one who is, until late in the book, better described as the main characters – is Yusuf.

What time period is these old shades set in? These Old Shades is a 1926 historical romance written by British novelist Georgette Heyer. The novel is set around 1755: Heyer refers to the Duke of Avon's participation in the 1745 uprising as ten years previous; in addition the Prince of Condé is said to be about 20 years old.

What is the role of the cripple in Paradise of the Blind? Similar to the duckweed flower, the cripple's song symbolizes the evolution in Hang's understanding of the suffering and pain in her society. As Hang is growing up, her neighbor (whom she calls the cripple) sings every day.

What is the moral of the story The Country of the Blind? Answer. Answer: I can think of three possible morals to the story "The Country of the Blind." Don't judge a book by its cover. Or: don't presuppose that you know everything about a person, just because you know...

What is the overall message of The Blind Side? The main messages from this movie are that compassion and kindness can really make a difference.

> *jlpt e try n1 n2 n3 n4 n5*, *pipeline pigging technology*, *paradise of the blind*

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