

MATRIX STRUCTURAL ANALYSIS

SOLUTION MANUAL

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What are the matrix methods for structural analysis? There are two general approaches to the matrix analysis of structures: the stiffness matrix method and the flexibility matrix method. The stiffness method is also known as the displacement or. It obtains the solution of a structure by determining the displacements at its joints.

What is the matrix analysis method? The matrix analysis method has been applied to an outgassing pipe and to an electron microscope. The matrix method makes it possible for a digital computer to calculate pressures at many positions of complex high-vacuum systems. The characteristic values P_x and Q_0 reflect the pressure dependence of outgassing rates Q .

What is the stiffness matrix in structural analysis? A stiffness matrix, $[K]$, relates point forces, $\{p\}$, applied at a set of coordinates on the structure, to the displacements, $\{d\}$, at the same set of coordinates. The locations and directions of the point forces and displacements are called the coordinates of the structural model.

What is a flexibility matrix in structural analysis? The flexibility matrix method is also a method of analysis of indeterminate structures. This method comes under the force method of analysis. In this method, forces are taken as unknown, and equations are expressed in terms of these forces.

What is the easiest method in structural analysis? Linear static analysis is the simplest and most widely used method of structural analysis. It assumes that the structure is linear, elastic, and static, meaning that it does not deform beyond its elastic limit, it does not change with time, and it is not affected by dynamic or

nonlinear effects.

What is matrix method formula? A matrix equation is of the form $AX = B$ where A represents the coefficient matrix, X represents the column matrix of variables, and B represents the column matrix of the constants that are on the right side of the equations in a system. Let us consider a system of n nonhomogenous equations in n variables.

What are the methods of matrix solution?

How to do a matrix data analysis? Decide the two factors whose relations are to be analyzed. Check the number of individual items in the two factors. Prepare a matrix to accommodate all the items of the two factors.

How many types of matrix methods are there? The various types of matrices are row matrix, column matrix, null matrix, square matrix, diagonal matrix, upper triangular matrix, lower triangular matrix, symmetric matrix, and antisymmetric matrix. Question 3: Explain a scalar matrix?

What is the formula for stiffness in structural analysis? Its stiffness is $S = F/\delta$, where F is the total load and δ is the bending deflection. Figure 5.7 (c) A beam of square section, loaded in bending. Its stiffness is $S = F/\delta$, where F is the load and δ is the bending deflection. $= EI/\delta$; other shapes give the same answer, only with a different factor than 12.

What is the difference between flexibility and stiffness matrix method? The modal flexibility is another popular feature and defines the flexibility matrix as the inverse of stiffness matrix as in Eq. (10). The static force is applied to the structure, resulting in structural displacement. Therefore, the flexibility matrix expresses the displacement pattern related to a unit force.

What is matrix force method of structural analysis? The matrix force approach to the analysis of statically indeterminate structures is characterized by the selection of an internal force system (basic system) in equilibrium with the external loads.

What is rotation matrix in structural analysis? A rotation matrix is defined as a matrix where the elements are the same as the identity matrix, except for specific elements that are determined by cosine and sine values of an angle θ . AI-generated

definition based on: Theory and Applications of Numerical Analysis (Second Edition), 1996.

What are the three items that you trade off in the flexibility matrix? A Flexibility Matrix concedes that the three components of triple constraint theory include Time, Cost, and Quality, combined as risk.

What are the types of structures that can be solved using the stiffness matrix method? Structures such as simply supported, fixed beams and portal frames can be solved using stiffness matrix method. 16. Give the formula for the size of the Global stiffness matrix. The size of the global stiffness matrix (GSM) = No: of nodes x Degrees of freedom per node.

What are the different methods of matrix? Linear Transformation- a function from one vector to space that preserves the original structure 2. Linear Combination- linear sum or linear difference of vectors 3. Transpose of a matrix- matrix obtained by interchanging the rows and columns 4. Determinant- volume enclosed by the rows of a matrix 5.

What are the research matrix methods? What is the Matrix Method, and why should I use it? Using a review matrix enables you to quickly compare and contrast articles in order to determine the scope of research across time. A review matrix can help you more easily spot differences and similarities between journal articles about a research topic.

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 are the different types of matrices in data structure? A matrix consists of rows and columns. These rows and columns define the size or dimension of a matrix. The various types of matrices are row matrix, column matrix, null matrix, square matrix, diagonal matrix, upper triangular matrix, lower triangular matrix, symmetric matrix, and antisymmetric matrix.

The Missing Mummy: A to Z Mysteries 13 by Ron Roy

What is "The Missing Mummy"?

"The Missing Mummy" is the thirteenth book in the A to Z Mysteries series by Ron Roy. It follows the adventures of Dink, Josh, and Ruth Rose as they investigate the mysterious disappearance of a mummy from the local museum.

Who are the characters in the book?

The main characters in "The Missing Mummy" are:

- Dink Duncan: A curious and clever detective
- Josh Pinto: Dink's best friend and a skilled inventor
- Ruth Rose Hathaway: A knowledgeable historian and Dink's sister

What is the mystery they are trying to solve?

The mystery in "The Missing Mummy" revolves around the disappearance of King Tutankhamun's mummy from the Greenlawn Museum. The mummy was on loan from Egypt and its disappearance has baffled the police. Dink, Josh, and Ruth Rose decide to take on the case and find out who stole the mummy and why.

What clues do they find and how do they solve the mystery?

As they investigate, the trio uncovers a series of clues, including a torn piece of cloth and a strange symbol. They interview witnesses and visit a local home for the elderly where they meet an elderly woman who may hold some valuable information. Through their persistence and logical reasoning, they eventually narrow down the suspects and identify the thief who stole the mummy.

What is the theme of the book?

The theme of "The Missing Mummy" is the importance of perseverance and teamwork. Despite the challenges they face, Dink, Josh, and Ruth Rose never give up on the case. They work together, using their collective skills and knowledge to unravel the mystery and bring the thief to justice.

Is Mistborn and Mistborn: The Final Empire the same? Mistborn is the name of Brandon's epic fantasy trilogy. The first book is technically Mistborn: The Final

Empire, though people just tend to call it Mistborn or Mistborn 1. The entire trilogy consists of The Final Empire (2006), The Well of Ascension (2007), and The Hero of Ages (2008).

Is Mistborn: The Final Empire worth reading? I pretty much devoured book one of the Mistborn Trilogy, The Final Empire by Brandon Sanderson in my buddy read that kicked off 2023. We're doing the whole trilogy, so yes, you can still join in! Sanderson has created a rich fantasy world I could dive into completely blind and immerse myself.

Can I skip Mistborn Era 1? It isn't necessary to read Era 1 (but it is very interesting) to understand Era 2. But you will miss out on certain events and characters mentioned in Era 2 if you skip Era 1.

Is Mistborn 3 or 7 books? Books #1-3 are the original trilogy to be read together. Books #4-7 are the Wax and Wayne series that take place 300 years later. Books #8-10 are set to take place "in the early days of computer programming" ... the Era Three trilogy, just recently announced and confirmed, will be called Ghostbloods. Details to come.

Is Mistborn spicy? Kristoffer Not explicitly, no. Chris A There is basically no sexual content in the book. I've only read the first two Mistborn books so far, but I'd imagine that since the author is a big-time Mormon that you don't have to worry about explicit sexual material in any of his books.

Are all Brandon Sanderson's books connected? Many of Sanderson's works are set on different planets in an overarching universe known as the Cosmere. They are often subtly connected, with some characters appearing across the various series.

What grade level is Mistborn? Ultimately, I would recommend the Mistborn series for a reasonably mature 11 year old, with the caveat that the parent has to be the type of parent that regularly engages with their child on the media they take in.

Is there romance in Mistborn: The Final Empire? Anna Marie asked this question about The Final Empire (Mistborn, #1): Is there any romance? Jared A bit yes. It is part of the character and story but this is far from a YA romance novel in my opinion.

What should I read first Mistborn or Stormlight? If I'm wrong and you have read a lot of high fantasy before, and maybe even are coming over from having finished the wheel of time series, then stormlight is definitely fine to start with. I still think mistborn is better to begin with if you're trying to get into the cosmere, but in the end it's up to you.

What Brandon Sanderson book should I start with? If you're new to my books, here's a primer on where to start. If you don't typically read fantasy, try Steelheart or Elantris. If you consider yourself a fantasy reader, try Mistborn: the Final Empire or The Way of Kings. If you like romance, try Warbreaker.

Can a 13 year old read Mistborn? This wildly popular epic fantasy series is for ages 13 and up. Once, a hero rose to save the world. He failed. For a thousand years since, the world has been a wasteland of ash and mist ruled by the immortal emperor known as the Lord Ruler.

Is Mistborn Era 2 important? Mistborn Era 2 expands on the rich world-building and lore established in the original Mistborn trilogy, while also exploring new themes and societal changes. It delves into the complexities of power, identity, and the consequences of choices made by both individuals and societies.

Are Mistborn and Stormlight connected? Both stories are written by the same consummate author, Brandon Sanderson and are part of his larger Cosmere universe. Both are delightful stories. Mistborn is part of a larger collection which includes the Wax and Wayne trilogy.

Is Mistborn YA or adult? To answer questions about Mistborn Trilogy, please sign up. Andy This is YA appropriate. There's some violence, but I don't remember any strong language or explicit sexual content. The first book reads a lot like a typical YA novel, but the other two are a little more nuanced than that.

Will Mistborn become a movie? The Mistborn Movie Latest News In his yearly "State of the Sanderson" address in December 2023, the prolific fantasy writer revealed that "The Mistborn film has been in development but has run into some hiccups and is on pause for now."

Is the Mistborn series clean? No romance. There is talk of people taking women to be their mistresses. But it doesn't delve into detail. Tinkerbell There is a part where a kinda crazy guy tries to forcibly kiss a girl, and stabs her breast.

Why sixteen percent Mistborn? Sixteen matched the known number of allomantic metals -- the exact percentage was a clue from Preservation that those who were struck were snapped into mistings. Preservation chose to leave the clue this way so that even Ruin cannot alter it.

What do smokers do in Mistborn? A Smoker or Coppercloud is a Misting who can burn copper. a person burning copper gives off an invisible "cloud" that protects Allomancers inside it from the senses of a Seeker. While within this "cloud", Allomancers can burn any metal they wish and not be seen.

What does Brandon Sanderson's wife do? In 2006, Sanderson married Emily Bushman, an English, Spanish, and ESL teacher and fellow BYU alumna who later became his business manager. They have three sons and reside in American Fork, Utah.

Does Earth exist in the cosmere? The core sequence of the cosmere will consist of the Dragonsteel series, the Elantris trilogy, at least four eras of the Mistborn series, and The Stormlight Archive. The story of the cosmere does not include any books that reference Earth, as Earth is not in the cosmere.

What is Brandon Sanderson's most popular book? Words Of Radiance Is Sanderson's Masterwork If The Stormlight Archive is Sanderson's magnum opus, Words of Radiance is widely agreed to be his greatest novel.

Can a 14 year old read Mistborn? Book overview. This boxed set includes the Tor Teen trade paperback editions of the complete Mistborn Trilogy-- Mistborn , The Well of Ascension , and The Hero of Ages --by #1 New York Times bestselling author Brandon Sanderson. This wildly popular epic YA fantasy series is for ages 13 and up.

Is Mistborn high or low fantasy? Example: Brian Sanderson's Mistborn offers not only a well categorized and cohesive system of magic, but his books also come with guides and charts to help readers understand the intricate differences. This layering

of magic upon magical elements set this story well into the upper echelon of high fantasy stories.

How many POVs are in Mistborn?

How old is Vin in Mistborn: The Final Empire? Kelsier returns to Luthadel, the largest city in the Final Empire, and rounds up his former thieving crew for a final job: overthrow the Final Empire by stealing its treasury and collapsing the economy. Sixteen-year-old Vin is a street urchin in Luthadel.

Do Vin and Elend get married? Vin and Elend's Marriage A very simple wedding, all things considered. I found that appropriate, as I thought that Sazed would approach such things in the most elegant—but simple—way possible. This is also kind of a strange scene, when you think about it.

Are Vin and Elend dead in Mistborn? Elend and his army of Allomancers fight a massive koloss army to the death. Marsh buries an axe in Elend's chest then beheads him, causing Vin to kill Ruin and herself. Quellion orders noble houses burned with skaa of noble blood trapped inside.

Is it called Mistborn or The Final Empire? Mistborn: The Final Empire, also known simply as Mistborn or The Final Empire, is a fantasy novel written by American author Brandon Sanderson. It was published on July 17, 2006, by Tor Books and is the first novel in the Mistborn trilogy, followed by The Well of Ascension in 2007 and The Hero of Ages in 2008.

In what order should I read the Mistborn series?

In what order should I read Brandon Sanderson books?

Is Mistborn and Stormlight linked? The short answer is: They don't compare. Both stories are written by the same consummate author, Brandon Sanderson and are part of his larger Cosmere universe. Both are delightful stories. Mistborn is part of a larger collection which includes the Wax and Wayne trilogy.

Is Mistborn set before Stormlight? 'Mistborn' is one of the sagas that serves as a gateway to his universe. There are two trilogies, divided into two eras, to which a Secret History and a short story are added. It takes place before 'The Stormlight

Archive'.

How old is Vin Mistborn The Final Empire? Sixteen-year-old Vin is a street urchin in Luthadel.

Is Mistborn YA or adult? To answer questions about Mistborn Trilogy, please sign up. Andy This is YA appropriate. There's some violence, but I don't remember any strong language or explicit sexual content. The first book reads a lot like a typical YA novel, but the other two are a little more nuanced than that.

What is the best Brandon Sanderson book to start with? Generally the best place to start is the book Mistborn. It's also titled The Final Empire as a subtitle.

Should I read The Stormlight Archive or Mistborn first? Sienna Luprano Honestly you can go both ways, but in my opinion mistborn should come first for a few reason. First off, it's a much, MUCH more self contained series/book then Stormlight, and in more ways then one. Each book is it's own story with only a few loose thread left at the end (especially book one).

Will Mistborn become a movie? The Mistborn Movie Latest News In his yearly "State of the Sanderson" address in December 2023, the prolific fantasy writer revealed that "The Mistborn film has been in development but has run into some hiccups and is on pause for now."

What age group is Brandon Sanderson for? Sanderson's books in general are extremely digestible, and he is one of my favorite authors, I just think it's better to start reading his adult fantasy series and standalone when one is around 13 - 16, again depending on how mature one is for their age.

Is the Mistborn series finished? Sanderson's current plan is to begin working on Mistborn Era 3 in early 2025, but he doesn't plan to release the trilogy until all three novels have been written.

Who is hoid? Hoid is former King Elhokar's Wit and entertainer.* He is a recurring mysterious character in the cosmere who existed before the gods of the various worlds were created, and was involved in that situation. It has been hinted that he was a rogue student of Silverlight University.

Are all Brandon Sanderson's books in the same universe? The Cosmere is the fictional universe in which many of Sanderson's fantasy novels take place. It consists of several worlds, all of which share a magic system and a single origin story.

How many POVs are in Mistborn?

How does Mistborn fit into the Cosmere? Mistborn is a fantasy series by Brandon Sanderson. It is a major part of the cosmere sequence and is set mostly on the planet Scadrial. It is most well known as the trilogy of Mistborn: The Final Empire, The Well of Ascension and The Hero of Ages, but there have been additional installments.

What is Ponyo known for? The story follows "Ponyo" a fish that has the face a girl. After Ponyo runs away from her home at the bottom of the sea, she find a whole new world she never knew was out there, and new trouble as well, when she almost caught by a fishing boat, she was rescued by a five year old boy known as Sousuke.

What does the Ponyo symbolize? The relation between Sosuke, the young protagonist, and Ponyo, symbolises the connection between human and nature, underlining the necessity for humanity to live in harmony with its environment.

What animation style is Ponyo? Borrowing from Kond?'s experience in animating House Hunting, Ponyo would use solid and simple lines; in isolating basic animation elements, the film would aim to demonstrate the advantages of hand drawn animation through the depiction of motion that cannot be reproduced in any other medium.

What lesson does Ponyo teach? Overall, Ponyo is a beautiful and inspiring film that teaches valuable lessons about compassion, respect for nature, and the power of love.

Why Ponyo is a masterpiece? It operates by its own rules of storytelling – there is no clear villain, no story arc, subplots are not followed through – and yet for all that, it is a true work of art, worthy of discussion and debate for years to come.

What is the mythology behind Ponyo? Ponyo, once a goldfish was named Brunhilde, embodies the enigmatic Ningyo creatures of Japanese folklore. These

fish-people are depicted as both beautiful and dangerous, possessing powerful magic and the ability to transform between the human and marine world.

What is the allegory in Ponyo? Miyazaki's "Ponyo" is an allegory for a father's perspective of his daughter falling in love and getting married.

What is the 333 in Ponyo? Lisa's license plate is 333. The opening twelve seconds, involving vast schools of fish and undersea creatures, required 1,613 pages of conceptual sketches to develop. Sôsuke is based on Hayao Miyazaki's son Gorô Miyazaki, when he was five years old.

Why does Sosuke in Ponyo call his mom by her name? Given these two interactions I think the fact that Sosuke calls his mom Lisa and his dad Koichi is more of an indication of their intimacy and that they know each other than precociousness.

What is the moral of the story of Ponyo? In actuality, the story is about love, forgiveness, and coping with life-altering change – and it's a prime example of how far inspiration can drive an idea.

Is Ponyo feminist? Although Acthas argued that Andersen's original tale is less sexist than Disney's rendition, Ponyo proves to be a specifically feminist text, especially when viewed through the lens of a feminist ethics of care.

Can someone explain Ponyo? Here is the current IMDB plot summary: The son of a sailor, 5-year old Sosuke lives a quiet life on an oceanside cliff with his mother Lisa. One fateful day, he finds a beautiful goldfish trapped in a bottle on the beach and upon rescuing her, names her Ponyo. But she is no ordinary goldfish.

What does Ponyo stand for? Meaning:soft or squishy. With the unique meaning of “soft” or “squishy,” Ponyo is a cute girl's name with Japanese origins. For those who are fans of Japanese animation, you may recognize this name as the title of the 2008 Studio Ghibli film with the same name.

What is Ponyo's dad supposed to be? Originally a human, Fujimoto serves as the Guardian of Sea Life. Being the husband of Granmamare, Fujimoto is the father of Ponyo and her sisters. He's shocked to find out that Ponyo is in the care of a young boy named Sosuke, and has to retrieve Ponyo back before it's too late.

Why do people love Ponyo? One of the most crucial factors that draws viewers in when watching Ponyo is that its characters are all well-designed, fleshed out and come across with understandable intentions. The mother, Lisa, is working and taking care of her son while her husband Koichi works on a fishing boat.

What inspired Ponyo? Though Miyazaki is a Tokyoite born and bred, he took a pleasure trip to Tomonoura after making Howl's Moving Castle – and ended up staying for two months. It was in that period that he conjured the basic inspiration for Ponyo.

Is Ponyo's dad evil? In his core he is a good guy, who cares about his daughters. He is just over-pessimistic. He hates humans, because humans pollute the environment, and more specifically the sea. So he uses magic to purify the sea from the humans' waste.

Why does Ponyo look different? One of the best things about Ponyo is the way her magic affects her human form. Going from fish to human, she becomes a chicken-legged creature that is not quite human enough to look normal. Ponyo's chicken form is a good representation of her sacrifice.

Is Ponyo's mom a goddess? Granmamare (??????, Guranmamare) is the Goddess of Mercy and the Queen of the ocean, wife of Fujimoto and the mother of Ponyo and all her sisters. When she spoke to Lisa after the city was flooded, she entrusted Ponyo into her care, thus ensuring her daughter's safety and protection.

What race is Ponyo? Human. Throughout the first half of the film, Ponyo begins to transform from a fish into a human, where she grows in height and develops skinny orange arms and legs similar to a frog/chicken's. They eventually develop into human limbs.

Why did Ponyo's sister turn into fish? Appearance. Later in the film, due to Fujimoto's released potions, they too grow in size and number, fully transforming from girls resembling the size and hair length of Granmamare to immense fish made of ocean waves. They are reverted to their original forms after Granmamare appears to the women of the retirement home ...

What is the mythology of Ponyo? The character Ponyo's initial appearance may have been inspired by a Japanese ghost story called "Baika Hiritsu" and the Goldfish Ghost. Additionally, Ponyo's father, Fujimoto, shares similarities with dragon kings of Asian mythology and the father of Brunhilda in Wagner's operas.

Is The Little Mermaid based on Ponyo? Loosely based on Hans Christian Andersen's "The Little Mermaid," Ponyo is a tender, imaginative tale of self-discovery and friendship.

What fairytale is Ponyo based on? Context of Ponyo The film's director and writer, Hayao Miyazaki, stated that creation of Ponyo was inspired by Hans Christian Andersen's "the Little Mermaid", but he deemed that this inspiration was more abstract than just recreating the same basic story.

Why do people love Ponyo? One of the most crucial factors that draws viewers in when watching Ponyo is that its characters are all well-designed, fleshed out and come across with understandable intentions. The mother, Lisa, is working and taking care of her son while her husband Koichi works on a fishing boat.

Why is Ponyo such a good movie? Miyazaki's Studio Ghibli shows his wonderful touch animating, infusing life, in every little action of the characters in Ponyo. When Sosuke puts down so carefully his little boat to reach for the red fish you know that you'll have a very good time watching this movie.

How is Ponyo different from her sisters? They speak few words, and appear to be very small children - almost newborn, although they may have lived a very long time. Ponyo surpasses them greatly in size and magical abilities. It is unknown what they truly are, or if they have names and magical abilities of their own.

Is Ponyo child appropriate? Miyazaki's stunning adventure is geared to younger kids.

Is Ponyo feminist? Although Acthas argued that Andersen's original tale is less sexist than Disney's rendition, Ponyo proves to be a specifically feminist text, especially when viewed through the lens of a feminist ethics of care.

Why is Ponyo so powerful? The daughter of a masterful wizard and a sea goddess, Ponyo uses her father's magic to transform herself into a young girl and quickly falls in love with Sosuke, but the use of such powerful sorcery causes a dangerous imbalance in the world.

Are Ponyo and Sosuke in love or siblings? Mom! Ponyo came back, and she's a little girl now! S?suke (???, Sosuke) is one of the main protagonists of the film Ponyo on the Cliff by the Sea directed by Hayao Miyazaki. He is the son of Koichi and Lisa, as well as Ponyo's lover.

Is Ponyo's dad a bad guy? Children. Fujimoto is the main antagonist in Hayao Miyazaki's 2009 animated film Ponyo. While he's depicted as the main antagonist, Fujimoto isn't really a villain. He's simply an over-protective and an over-controlling father who just wants to prevent his daughter from wanting to turn into a human.

Why did Ponyo squish the baby's face? Ponyo gives them some soup Lisa made and smooshes her face into the baby's to make it laugh.

What is the main plot of Ponyo? Summary: A young boy named Sosuke rescues a goldfish named Ponyo, and they embark on a fantastic journey of friendship before Ponyo's father forces her to return to the sea. Ponyo's desire to be human upsets the balance of nature and only Ponyo's mother can restore nature's balance and make Ponyo's dreams come true.

Does Ponyo have a deeper meaning? In actuality, the story is about love, forgiveness, and coping with life-altering change – and it's a prime example of how far inspiration can drive an idea.

Why does Sosuke in Ponyo call his mom by her name? Given these two interactions I think the fact that Sosuke calls his mom Lisa and his dad Koichi is more of an indication of their intimacy and that they know each other than precociousness.

What species is Ponyo's dad? As a human turned caretaker of the sea, he resents his former kind for being so dirty and polluting his home. Fujimoto is very concerned with order and control, but he is not cruel; Granmamare convinces him sometimes things must happen outside of his control in order for others, like his daughter Ponyo,

to be happy.

What happened to Sosuke's dad? -S?suke's father never showed up on the shore when he was alive. Only long after the tsunami that he returned to his family. (Also taking into account the amount of shipwrecks that the tsunami had caused; there was no way anyone at sea could've survived that.)

What causes the flood in Ponyo? The film focuses on the love between a young boy named S?suke and Ponyo, a goldfish who becomes a girl, against the backdrop of a magical tsunami caused by Ponyo herself that strikes S?suke's idyllic coastal hometown. The land is flooded, creating a wondrous new underwater environment flourishing with life.

Does Ponyo and Sosuke kiss? The balance of nature is then restored, and the previously stranded ships head back to port, including S?suke's father. Ponyo jumps high in the air and kisses S?suke, transforming back into a human.

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