**Transcript**

April 4, 2024, 10:52AM

It's all been cool because and not my phone.  
I mean, yeah.  
So.  
Excellent.  
And with the file download to the.  
Where did the file download to like cause?  
Yeah.  
So I already opened it for you.  
Ohh OK perfect.  
So it's right here.  
Nice.  
See, you can now.  
OK, bye.  
And.  
I see.  
I think I put.  
Yeah, that you can start. Who?  
So this is like a test to see what kind of influence they I has on the human design process, human structural design and.  
I have made two tests for that, so one using zoning principle that is principle that called that is like using a tool that we are using to test it and also stabilization.  
So now I'm asking you both to test those who is.  
So for stabilization, there's one human assignment that one human AI, and then the AI can do it as well.  
And then I can compare the results and see like what is the influence of my eye and can you and I work together kind of.  
OK so so I have one human AI.  
Human AI?  
Yeah.  
For seven days and also for joining.  
So then for both we need to do one of the tests and this is the stabilization one.  
This one?  
Yes.  
So here it is.  
SET what you need.  
Yeah, kind of what you need to think about as well.  
And then here's the information.  
So first, just read through this and just you know a bit what we're talking about.  
And in terms of definitions and stuff, and then you can starts.  
And then we're here.  
Does it say to open assignment too?  
Because there's like assignment numbers, right?  
Yeah.  
True.  
So I actually wanted to make for you both like, OK, so you are Student one and then there's like an order in which you have to do them so that you will later be umm, and three assignments and it's like, OK, first you have to do assignment to and then after that you have to do segments like sure.  
Umm.  
It's.  
For you.  
Yeah, there was only single speaker.  
Thank you.  
Have Domino's Bindels,.  
This is funny.  
To.  
Umm into that?  
Exactly implicated.  
They would tested.  
Thank you.  
If the broker.  
Feed.  
That's OK.  
Yeah.  
Find some really well spoke later.  
That problem hangs in the breakout rooms and the full name, and that's not the transcript that was for now.  
Yeah, OK.  
Yeah.  
Mr Mayor.  
OK.  
So, umm yeah, we decided.  
You know the that will make sure. OK.  
That is like, that's the first numbers.  
Yeah, no.  
Oh, that's your breakfast.  
They were the most of them.  
Ohh ship it's it's important that you say aloud everything you think would do in designing.  
So every step explain what you do and why you do it.  
Try to keep speaking constantly.  
Do not be silent for more than 20 seconds.  
Speak English.  
Good luck.  
Cool, cool, cool.  
Next step Are you sure they won't continue? Yes.  
Expected duration 20 minutes.  
Cool.  
Stabilize the structure will design with minimal structural adjustments.  
Theo out.  
Everything you think can do, uh blah blah.  
That's actually consistent.  
Broads connected by hinges, displacements, or constrained ground level rod is always connected to the structure with the hinge connection beams with a fixed connection.  
These were first information sheet.  
Cool.  
Yeah, yeah, yeah.  
Uh, so here we have.  
Yeah, so long parts and short parts.  
Uh.  
So how would I do this to most efficiently?  
I need some stability elements on all bits.  
Uh, so first, maybe I want to stabilize.  
Yeah, at the corner, since those are quite small.  
Umm, I would want to do that somewhere in the middle. Ish.  
I think that would be the most stable, so I will oh.  
Ohh this is a long span and this is in short span.  
Uhm, OK yeah.  
So I think the first thing I will do here is, uh, where is it Ad raw diagonally?  
The two opposite members to place it diagonal between.  
156.  
And 195.  
Uh.  
Wait, Are you sure you want to continue?  
Who do I?  
That what diagonally?  
Please enter to press enter to split.  
Ohh yeah.  
Nice.  
Cool, I will.  
So that stabilizes this wall on that plane.  
I think I will also put one between 1:45 and 187.  
UH-145.  
And 187.  
Ohh no no, no, I didn't want that.  
What diagonally press enter?  
Yes.  
So that stabilizes those two on that plane.  
What's next?  
Umm.  
Maybe I can do that right away on the 2nd floor also.  
Yeah, I think I will do that right away.  
Just so those two planes are stable on both floors.  
So it'll be 183 and 23183.  
Can I press tab? Yes.  
Yes, OK.  
Press enter and then add another diagonal 177 and 168.  
Press enter. Cool.  
OK.  
So now if I want to stabilize.  
Other parts.  
How would I do that? Mm-hmm.  
Let's see. Maybe.  
I can stabilize.  
Uh, yeah, I think this area here would be a good place for stability.  
Elements of the other plane, so we can do that.  
Uh.  
Actually, if we have stability elements in the floor, would that work?  
It's a proposed that would work.  
And then we don't need stability in the other parts, but it's longer, isn't it?  
Umm hmm.  
Or if I stabilize 171562145, let's just let's just add stuff 1562145 enter.  
Now that's stable.  
This little box fully stable.  
Yeah.  
Yeah, I believe so.  
Cause that can't move, that can't move, that can't move.  
So that can't move right?  
Seems logical I hope.  
OK.  
Umm.  
Then I think the next logical step would be 183 to 177.  
80.  
3177.  
So now this whole bit is stable.  
Umm.  
Yeah, so now let's look at the other parts.  
Uh.  
Yeah.  
So let's look at the stability of.  
This element here why is that not stable?  
Because it can move in this axis here toward from 156 towards 200 and oh, moves around a lot to 253 can move in that plane.  
So we want to stabilize that.  
Uh.  
Yeah.  
And we can stabilize that by putting a diagonal between.  
Yeah, it can either go on that one or I'd like to put it maybe in the middle that would be.  
Better.  
I think so.  
253 to 258 two 5325 it's yes.  
Umm, alright.  
So now I believe this column is stable.  
These columns are.  
Actually.  
Yeah, now column number.  
253 is stable in all the directions.  
Yeah, but then 258 can move in this plane towards 235, so it's nice to put some sort of diagonal there.  
However, those be very big diagonals.  
Yeah, those would be big diagonals.  
So maybe there's some other sort of solution if if, if, if what, how can we find that?  
Uhm, can replace a rod by a beam?  
Could do that.  
I don't know.  
How much of a impact it would make on the material you use?  
With the difference between a rod and a beam, of course a beam is more, but by how much?  
Because then maybe I could just replace.  
Yet 2 rods by a beam.  
Or or what?  
What else could I do?  
Maybe I can replace two small or two columns.  
Yeah, column rods by beams and that would make stable connection to the top side of the structure.  
That sounds logical.  
Ooh, lots of rotation stuff.  
So 100 just let's try it out.  
Let's just let's go for it.  
Add rod diagonally 169178169 sure 178 enter and then I can.  
Oh, I don't like that.  
It's the other way around.  
Should she just replace it?  
Let me get.  
For sure. Umm.  
I guess they can pick both.  
Uh compression and tension so doesn't necessarily matter, but then I'm going to replace a rod by a beam and I'm going to replace ohh rotation problems again.  
What the heck no, 178235 uh 178.  
Replace a rod by B.  
2/3 is that 234?  
Yeah, 234.  
Yeah, and now?  
I.  
If I want to rotate column 274.  
Then I would have to.  
Can I do that?  
Still no, not that stable.  
Yeah, because it can't really move in a rotated in that plane without.  
Rotating the whole.  
Structure.  
Let me think about this a little bit more.  
Hmm hmm.  
So then actually if if that OK let's let's keep thinking the same plane.  
If I think of that whole column being fixed.  
It can't.  
It can't rotate into the plane of the umm short side.  
It would be maybe Nice if there was.  
Yeah, plain click a coordinate system or something, not coordinate system, but vector directions or so, so I can.  
Think about this better.  
Uh, so, yeah, that's stable in that direction.  
So actually do I need member 269 because.  
Now if I.  
Rotate the column in the middle.  
Then it's no longer.  
Yeah, I can actually be missing one of those contents.  
Yeah.  
Yeah.  
So I can remove one delete diagonal rod 269.  
Yeah.  
And that's just should still be stable, I hope.  
Umm OK.  
So I think yeah, because of this column actually well this column is so nice.  
Yeah, because of this column also.  
233 and one.  
OK, wait, let's say.  
This one is still this is stable.  
This column number column #158 is not stable.  
It's just keep working.  
In this process 158 umm, they can still move and not direction.  
That can be fixed by this simple diagonal between uh, 212 and 240 or 146 uh diagonal rod two 12146.  
So.  
6.  
OK, so now that column can't move. Cool.  
Umm.  
And actually then 146 also can't move 112 cannot move.  
Ohh, rotation problems are.  
So that maybe if I grew up in the middle, No.  
This is.  
OK.  
Yeah, this is the view I want.  
And now?  
Yeah, 212 can move in this plain still.  
So I can maybe actually fix that the same way I fixed this column, because otherwise I would need a big diagonal here, which might still be a solution.  
No, because it's just a lack of call or being there, isn't it?  
Ohhh it lack of beam but that yeah, but these would be these are still hinged in these corners.  
OK yeah.  
So I still probably need, but it's.  
It's a nice open space.  
It's probably for a reason.  
Maybe I should keep it that way.  
Umm.  
Yeah, but then the problem of.  
Column 100 and what is that?  
34 One this one this one there.  
That one still needs to be stabilized in this direction.  
Umm.  
So yeah, I suppose it's either we actually what are the instructions?  
What should I?  
Look for.  
You have to stabilize minimal structure with minimal structural adjustments.  
Structural designer presents Structural villa.  
Umm.  
You do not need to consider buckling.  
There are two conditions for the placement of the raw Structural albums are not allowed to spend diagonally through a space, so since it's a wall or a floor, it's not the space.  
I suppose.  
But it's an it's a nice big space.  
It would be nice to keep it that way. Umm.  
If I stabilize.  
134 list double check that it's 130 four 100 ohm.  
Hard to see No 194 and 266 into beams 194.  
16265.  
Oh, what did I do?  
No, I did the wrong one.  
Was 265.  
Well, that's a diagonal.  
Why is that?  
No, I don't want 274. What?  
Uh, the I did something bad.  
Please beam by ROD 274.  
OK, that's back.  
I want.  
What is this number?  
20121 O replace 201.  
Yeah, cool.  
And then if I place a diagonal.  
There.  
So from 168 to 160 nine 168.  
169.  
Cool.  
So now that's stable, but the bottom side is still unstable.  
So if we look at column 186, that one is 3 to fall actually. Is it?  
Yeah.  
Yeah, it is.  
It very much is.  
How can we stabilize that now?  
Maybe if it was somehow structurally linked to?  
Uh, the adjacent square?  
Yeah.  
So we can leave that area open this whole area there.  
And maybe.  
Hmm.  
Yeah, I'm certain I feel this is quite inefficient way I'm doing this maybe.  
Is it?  
And not being inefficient.  
Yeah, whatever.  
Hmm.  
Let's see.  
186 I could make a diagonal in the floor.  
Umm.  
And that would let's see.  
Yeah, right now the floor can't move in any way.  
So anyway, I could also link the stability of 186 with the square jasons.  
Umm.  
If I stabilize, let's just do this 144 and 217144217.  
That's stable now.  
And what can I do next?  
What sorts of nice way to do it?  
Ohm so now this whole plane is unstable in that direction.  
Could I stabilize that with?  
No, I can't.  
I would say.  
If I if I actually is that playing unstable in that direction?  
No, because once.  
Yeah, right now 217 is fully stable.  
144 is also fully stable, yes.  
So if it out of four bracing from 162 to 165.  
Where am I?  
Where am I?  
Where am I 16162 to 16162?  
160.  
Nice.  
It's nice to.  
Uh, so now.  
Yeah, now column 210 should be stable.  
Yep, it is stable, correct.  
UM 147 stable 17 is stable, 144 is disable.  
It's double stable actually.  
Is that inefficient?  
Because uh diagonal 277 is stabilizing it in that direction as well as tuned 73.  
So could I remove 2 to 73 with no repercussions?  
Probably not, but I may be wrong.  
I think I may be.  
I think I might be able to take that off because 277 stabilizes that plane through no.  
Yes, through 270 and 269.  
I think so.  
273 let's remove that.  
273.  
And I hope it's OK.  
Let's see no 178 stable in that direction.  
Stable in that direction.  
So two, it's stable actually here.  
It's also double stable.  
Do we need anything on the ground floor since?  
You know, we don't need tuned 63263.  
Don't need that cool.  
Back to 156.  
Stable yet.  
So now it's on the top floor.  
Is everything stable and is everything needed?  
Good.  
Uh hmm.  
OK so.  
180 stable in One Direction, not stable in the other direction.  
So I need to fix that.  
I think a nice solution would be something in the roof that's also longer O maybe I want to look for a shorter element, so I'll just put umm that's a nice 1180 to 160 seven 18167.  
So 100 eighties stable where we were we are we at ohh 167 stable 170 stable 169.  
Stable 168 stable.  
Uh one 72272 stable.  
Is it double stable?  
No, it's single stable, yeah.  
Yeah, 82 stable.  
I feel like the middle part can be simplified somehow, so maybe if I maybe I can remove.  
No, I can't remove 265 like.  
Yeah, I can't really remove any of them, can I? Uh.  
Hmm.  
What if I?  
Hmm.  
OHS.  
Tough one.  
Can I remove 264 without any repercussions?  
No, there's the middle.  
Things will be unstable, the middle column.  
Maybe it would be nice to replace 264 with something in the roof, since then it's out of the way of the space.  
Yeah, I'll do that.  
So delete diagonal 264.  
64 nice.  
And then I'll put it in the roof between 176 and 174.  
SO174.  
176.  
Yeah.  
Yeah. That's nice.  
That's very nice and now?  
Yeah, that's stable in both directions.  
Now, since I have that in the roof, could I remove another one just for shots and giggles?  
Since.  
OK, let's say if I remove 272.  
Yeah, that would make it unstable.  
Yeah.  
Yeah, yeah, yeah.  
By the node here.  
Umm.  
Yeah, I shouldn't do that, no.  
OK.  
Yep, I think.  
Is that fully stable?  
I think so.  
Let's just click next.  
You should want to continue.  
Yes.  
How much did you enjoy performing this assignment?  
It was quite nice.  
This uh.  
I think the.  
Viewing was quite nice.  
However, the rotations the rotation of The thing is finicky.  
That's difficult and I think the numbers, so I'll put, I'll put a nice three and I will say.  
Ohh notation of model is difficult and finicky.  
How do you spell that?  
And what's another word for finicky?  
Not intuitive.  
Sorry, anika.  
It's not a nice word.  
You and what was it?  
The numbers are sometimes.  
Who is this funny too?  
Ohh yeah.  
Sometimes hard to read, umm, with black over blue.  
Otherwise fun.  
Huh. Yeah.  
Yeah, the cruise is out of the page.  
UM, how do you rate your level of ease performing this time?  
I think it's it was nice.  
Yeah.  
It I'd give it a four.  
I think it was still quite a difficult structure with all the missing beams and long spans so.  
Difficult structure with a missing beams and long spans.  
But this model made it easier.  
Umm, only a bit confusing at the.  
First. Uh.  
What's the first change?  
First change I made me because I didn't see the press enter message.  
And I want it I almost.  
Accidentally.  
Uh.  
Finished the assignment.  
Before it was stable, I'm actually curious whether it is really stable.  
What I did or not, how do you?  
Well, do you think you performed in this assignments?  
One is I have no idea what I'm doing.  
Probably unstable redundant members.  
I would say 4I I'm quite sure it's stable.  
But.  
Probably some redundancy.  
And maybe not the most material efficient.  
Or space efficient.  
Uh stability.  
Set up sure that sounds good. Next.  
Do you think it would have gone better with the assistance of an AI tool?  
Ohh, is this suggesting something?  
That you can ask for 8 member placement suggestions.  
I think probably because that would make it really clear what would.  
Yeah.  
Where the the next steps, what are the possibilities?  
Do you think the AI tool itself can perform stabilization better than you?  
I don't think.  
Oh, I think I forgot to write something for the last one.  
OK, I'll say no.  
Come.  
I'm quite confident myself.  
I think that AI tools?  
Umm, what's the word I'm looking for?  
Uh optimize in one aspect, but forget other uh, that spec that aren't necessarily.  
Necessary or needed, let's say necessary, but still nice, such as leaving spaces open.  
But I don't know.  
What the AI tool is gonna do?  
Yeah.  
Next, what criteria did you keep in mind?  
Yeah, OK.  
Uh, so one of the main thing I looked at is stability.  
Column members.  
That was the first thing.  
I think next was keeping open spaces.  
Uh slash preserving open spaces, yeah.  
Umm, a material efficiency?  
So small members.  
As well as, yeah, I think aesthetic.  
Uh, it didn't really look into windows or viewing, so I will not put that.  
Please leave your email below.  
Ohh and include me in the knowledge of events.  
Wow, OK. Uh.  
I'll put my personal emails that final.