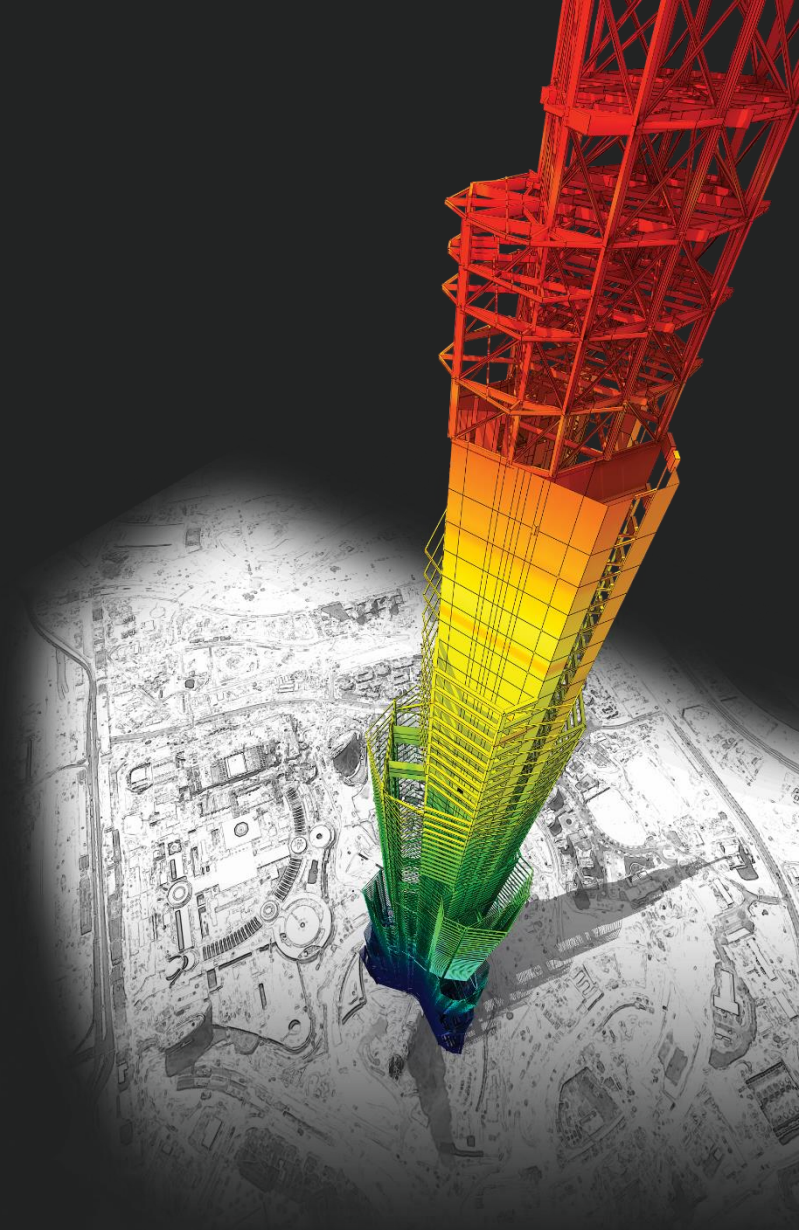




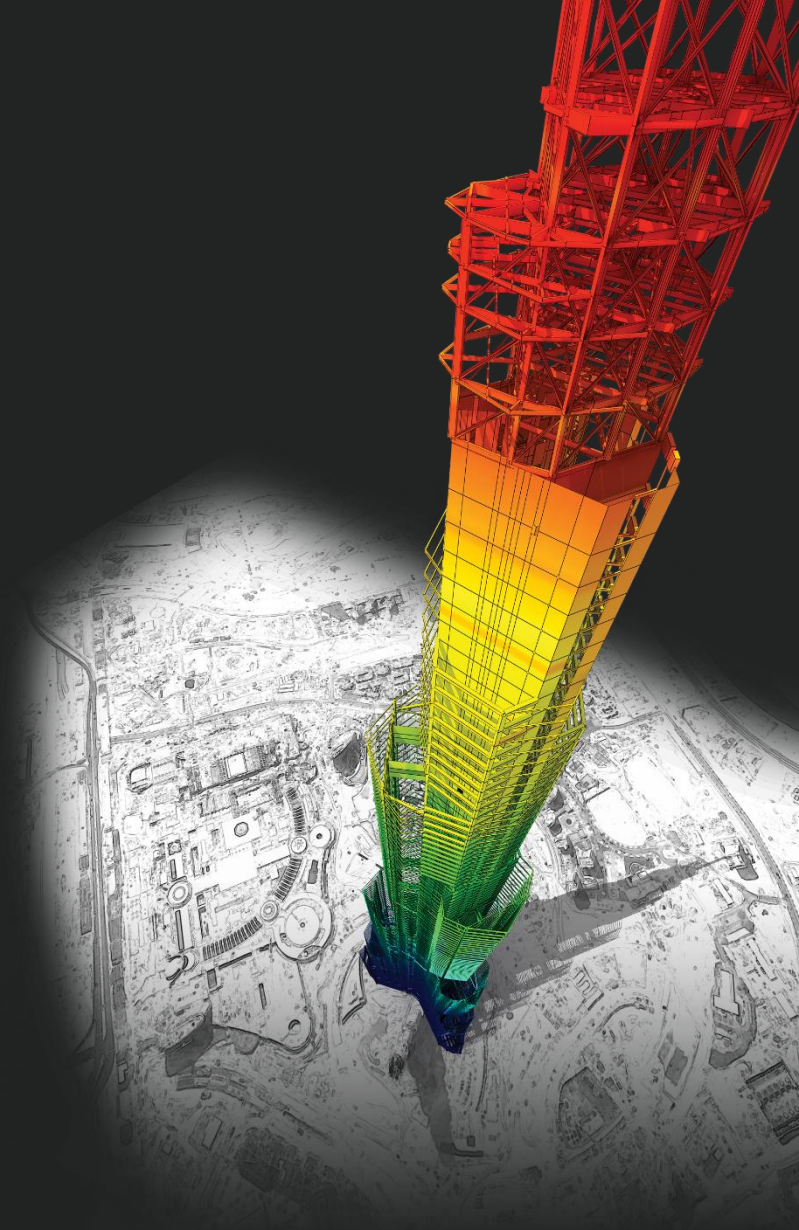
如何分析設計力霸式結構



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問題

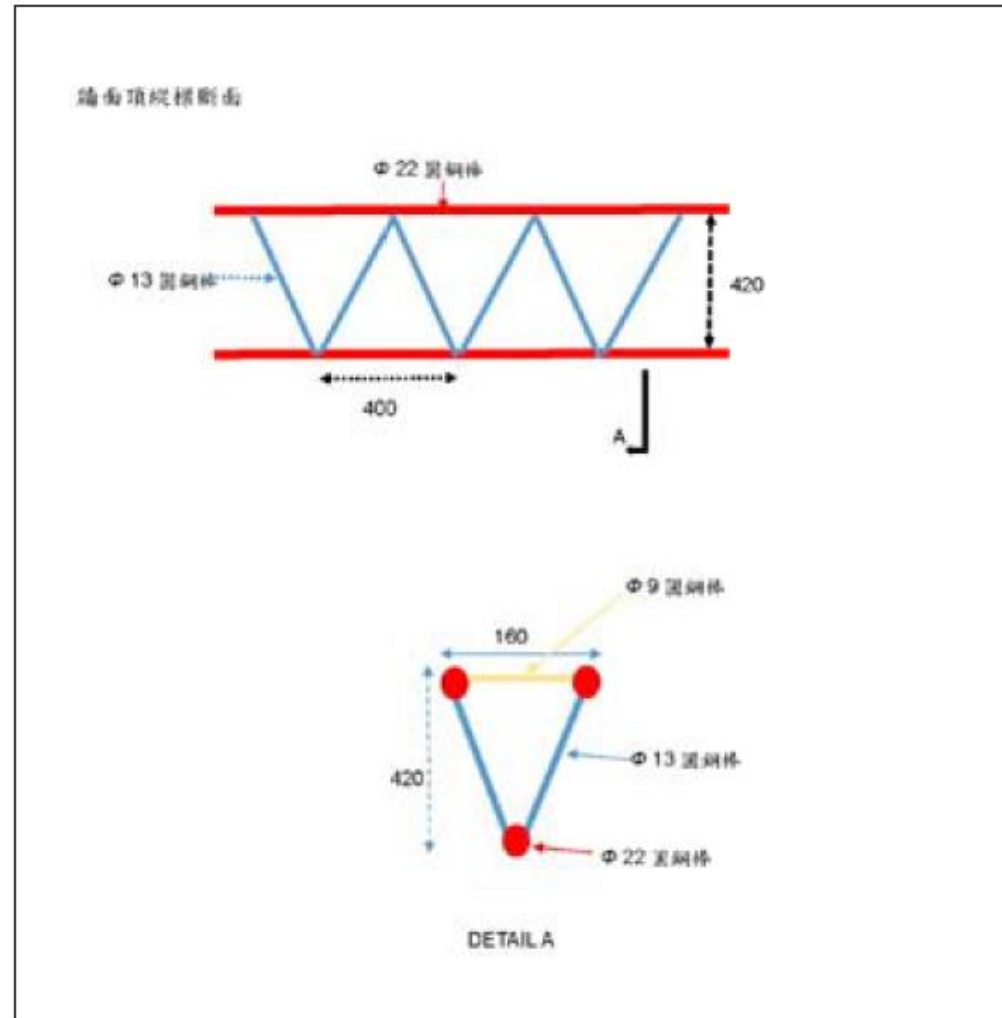


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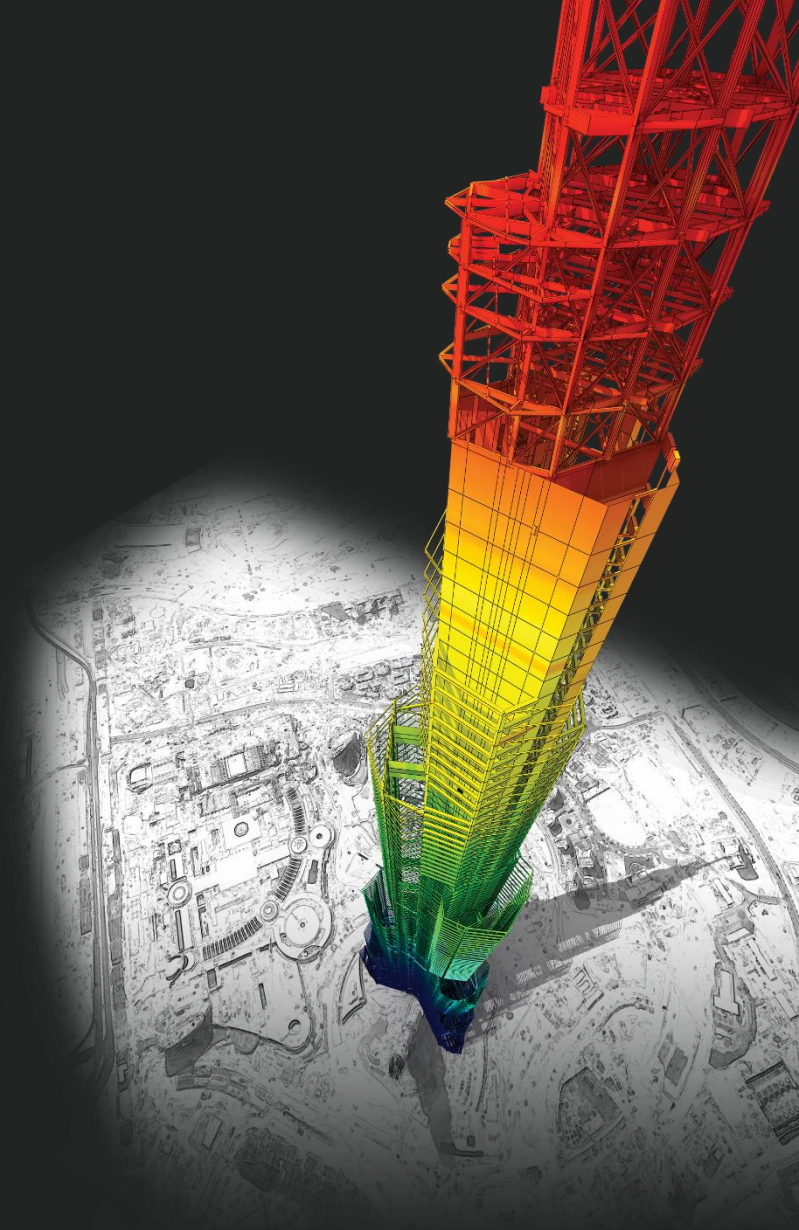
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問題

因結構梁柱為桁架系統，想請問是否能將桁架斷面在GEN中模擬出來並分析及設計呢？



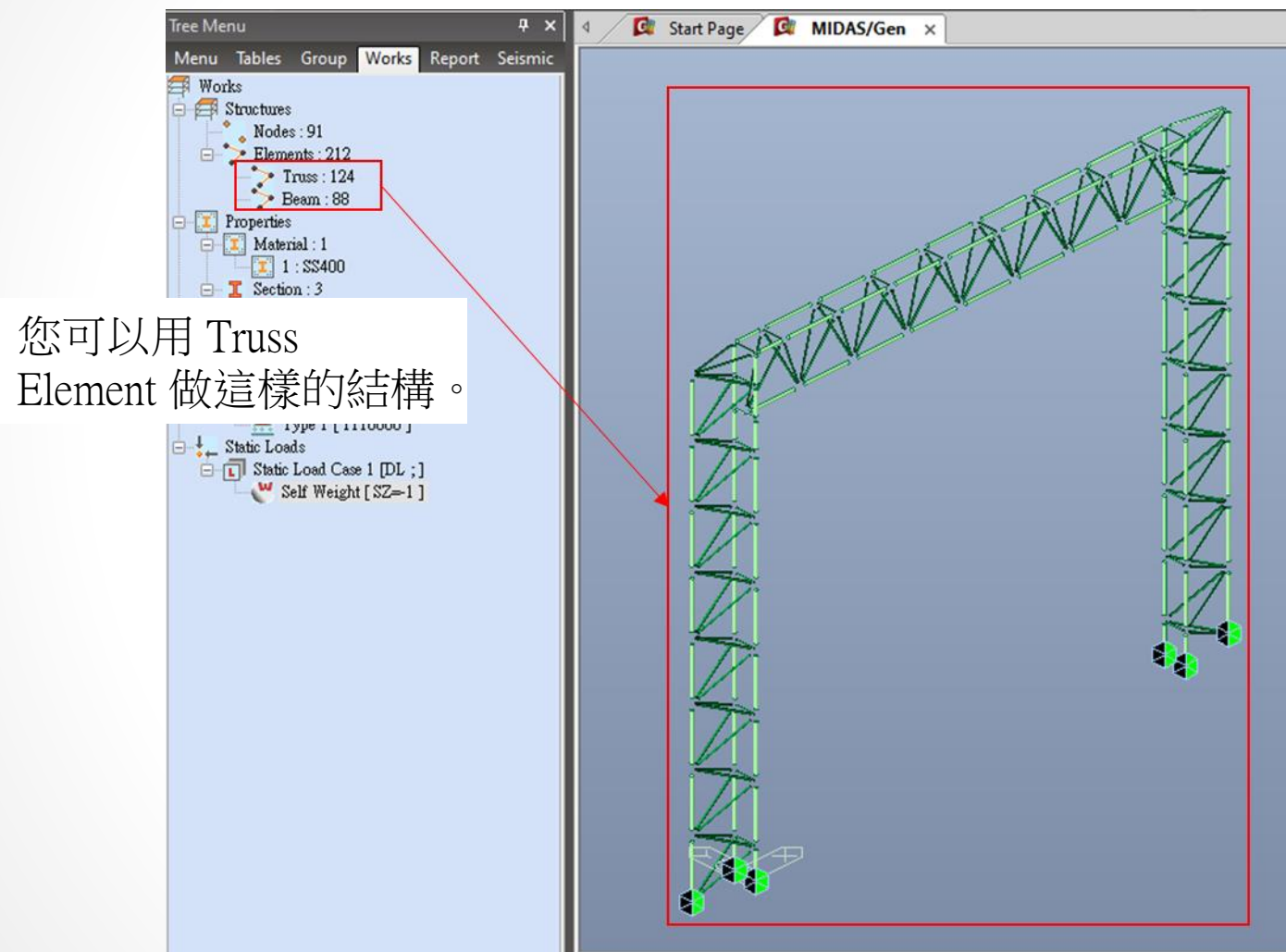
回答



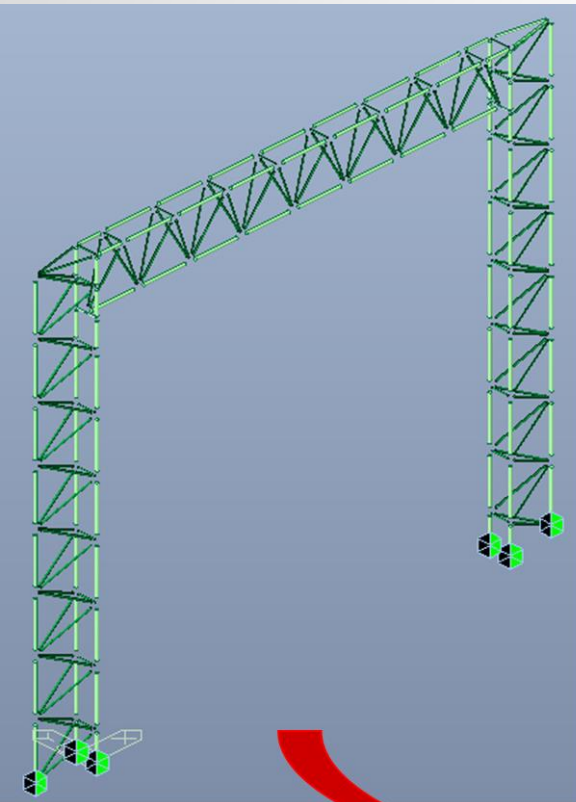
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這個問題，您應該直接modelling。
然後那樣結構可以分析和設計。



分析



The screenshot displays the MIDAS/Gen software interface. The main window shows the same truss structure as in the previous image, but now colored according to a displacement contour analysis. The colors range from blue (low displacement) to red (high displacement). The horizontal beam shows higher displacement values, indicated by red and orange colors, while the vertical column shows lower values, indicated by blue and green colors.

The software interface includes a menu bar with options: Reactions, Deforma..., Forces, Stresses, Strains. The 'Deforma...' menu is active, showing the following settings:

- Displacement Contour
- Load Cases/Combinations: ST: DL
- Step: [Dropdown]
- Options: Displacement, Velocity, Acceleration, Absolute Acceleration
- Components: DX, DY, DZ, RX, RY, RZ, RW, DXY, DYZ, DXYZ, Local (if defined)
- Type of Display: Contour, Deform, Values, Legend, Animate, Undeformed, Mirrored, Plate Cutting Diagram, Current Step Displ., Stage/Step Real Displ.

Buttons for 'Apply' and 'Close' are visible at the bottom of the settings panel.

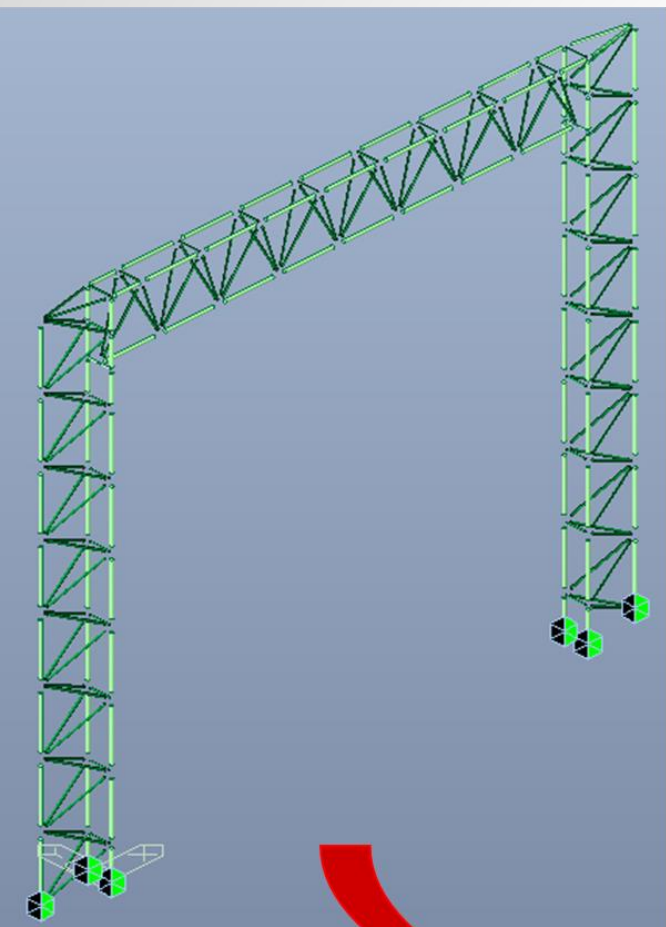
On the right side of the interface, there is a legend for the displacement values:

midas Gen POST-PROCESSOR	
DISPLACEMENT	
RESULTANT	
8.04117e-03	Red
7.31015e-03	Orange-Red
6.57914e-03	Orange
5.84812e-03	Yellow-Orange
5.11711e-03	Yellow
4.38609e-03	Light Green
3.65508e-03	Green
2.92406e-03	Light Blue
2.19305e-03	Blue
1.46203e-03	Dark Blue
7.31015e-04	Very Dark Blue
0.00000e+00	Blue

Additional information on the right side includes:

- SCALEFACTOR= 2.4984E+03
- ST: DL
- MAX : 150
- MIN : 105
- FILE: BEAM COLU-
- UNIT: cm
- DATE: 03/31/2023
- VIEW-DIRECTION: X: -0.612, Y: -0.612, Z: 0.500

可以分析。



Start Page MIDAS/Gen

TWN-LSD90 Code Checking Result Dialog

Code : TWN-LSD90 Unit : kgf , cm

Sorted by Member Property Change... Update...

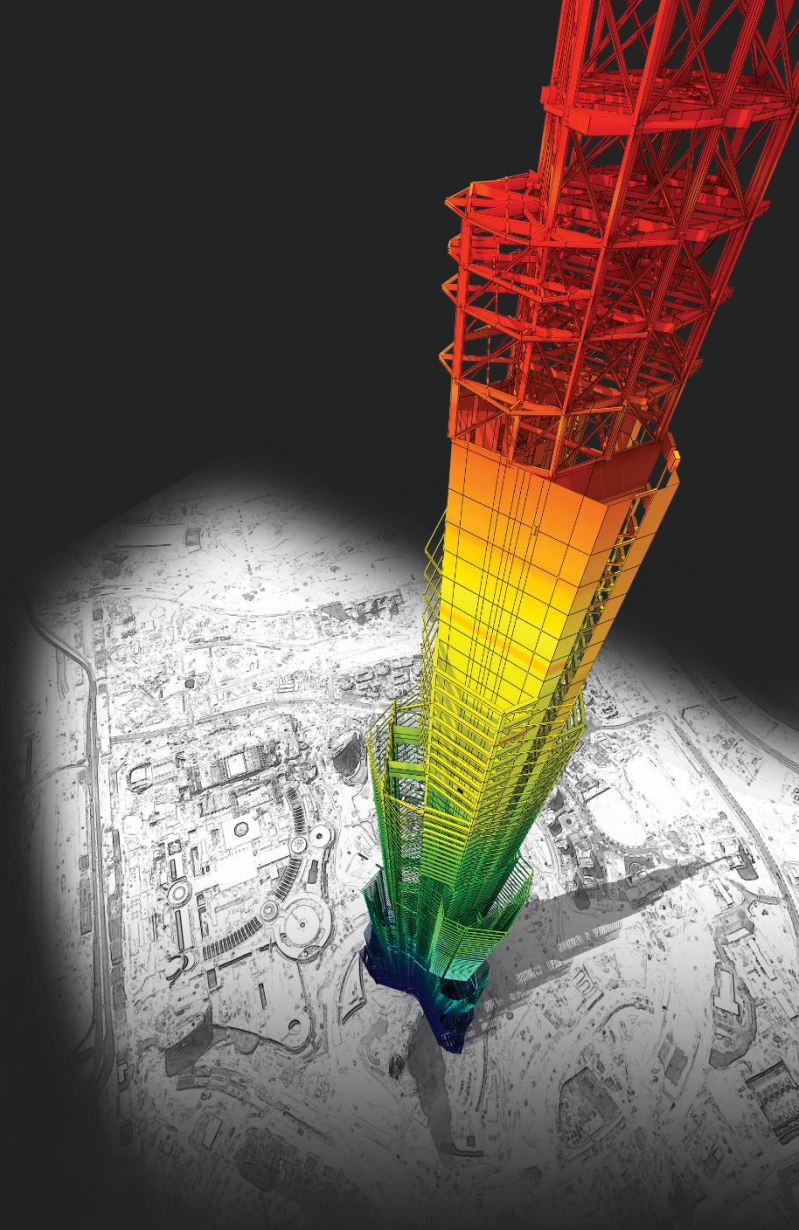
CH K	MEMB COM	SECT SHR	SEL	Section	
				Material	Fy
OK	43	1	<input type="checkbox"/>	D22	
	0.023	0.002		SS400	2400.00
OK	207	2	<input type="checkbox"/>	D13	
	0.010	0.000		SS400	2500.00
OK	213	3	<input type="checkbox"/>	D9	
	0.152	0.012		SS400	2500.00

Connect Model View View Result Ratio...
Select All Unselect All Re-calculation >>
Graphic... Detail... Summary... Close

A 3D wireframe model of a truss structure, identical to the one on the left, rendered in green. The structure is supported by four columns at the base. The background is a light blue gradient. In the top right corner, there are navigation icons for 'TOP' and other views.

可以設計。

Thank You



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