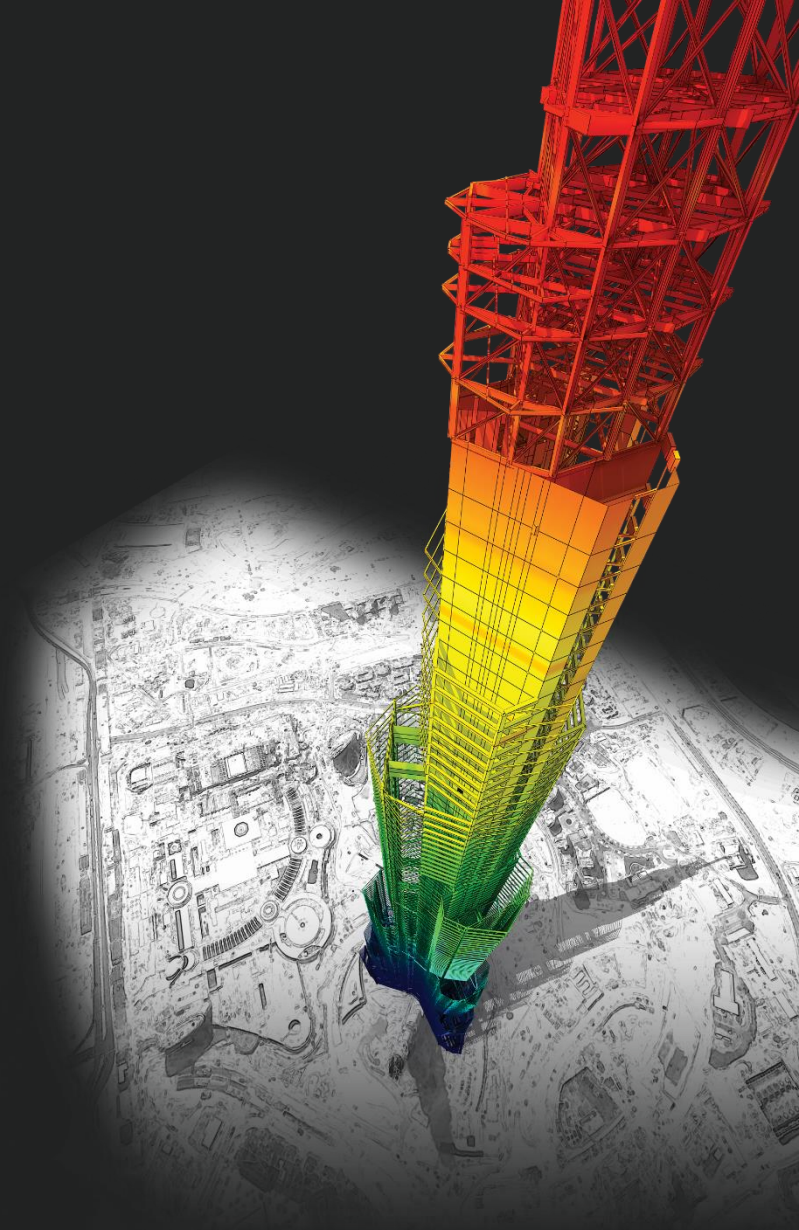


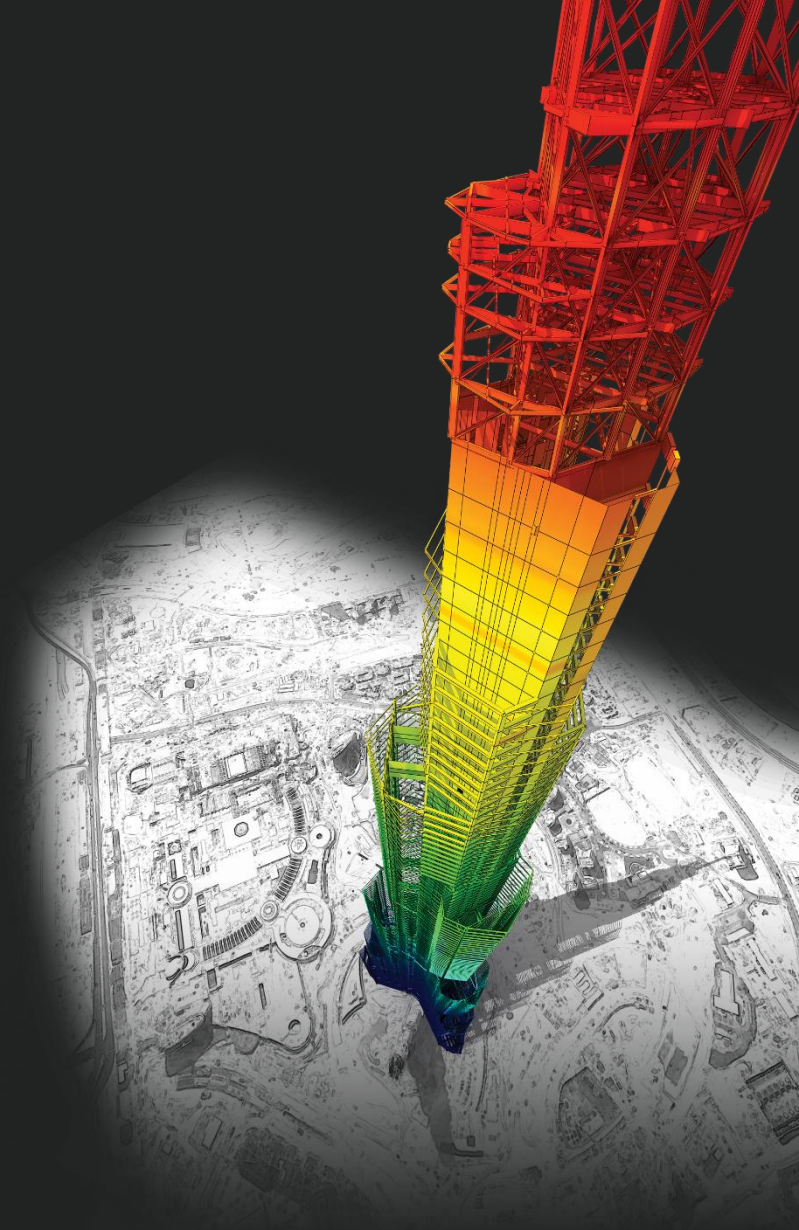
Pushover Analysis Problem



DESIGN OF General Structures

Integrated Design System for Building and General Structures

問題



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問題

使用SERCb 2023版進行塑鉸分析後數據匯入MIDAS 2021 3.2版，進行側推分析，跑完就出現如圖，隨後出現的 pushover curve 上面的容量震譜無法勾選，請問這如何解決？

Pushover Curve

Pushover Load Case: pushX

Plot Type

Capacity Curve (MDOF)

- Base Shear vs. Displacement
- Shear Coefficient vs. Displacement
- Shear Coefficient vs. Drift
- Load Factor vs Displacement

Additional Curves at Other Nodes

0 0 0 0

Capacity Spectrum (SDOF)

- For Performance Point
 - FEMA 440
 - Procedure-A
- For Target Displacement
 - EC8/OPCM

Demand Spectrum

Define Elastic Spectrum...

Demand Spectra at Damping Ratios (%)

5 10 15 20

Constant Period Lines at Periods (sec)

0.5 1 1.5 2

Damping Parameters

Inherent + Additional Damping (%) 5

Structural Behavior Type A

Transformation Factor (Gamma) Calculation

- Based on 2D Behavior (EC8-1:2004 Annex B)
- Based on 3D Behavior

Additional Pushover Step for Story Drift

Text Output

Draw

Show Ref. Line

Show Symbol

Close

Capacity Curves

Resulant Base Shear(V)

Monitored Displacement(D)

Description for Printed Output

Show Ultimate Displacement (EC8-2) D

Performance Point

Displ. Control Node: 253 Dir.: DX

Load Pattern: Static Load

Step

V,D

Sa,Sd

Teff,Deff

Graph Display Option

Background Color

- Black
- White

Change Graph Title

Change Graph Range

Save Window As *.bmp

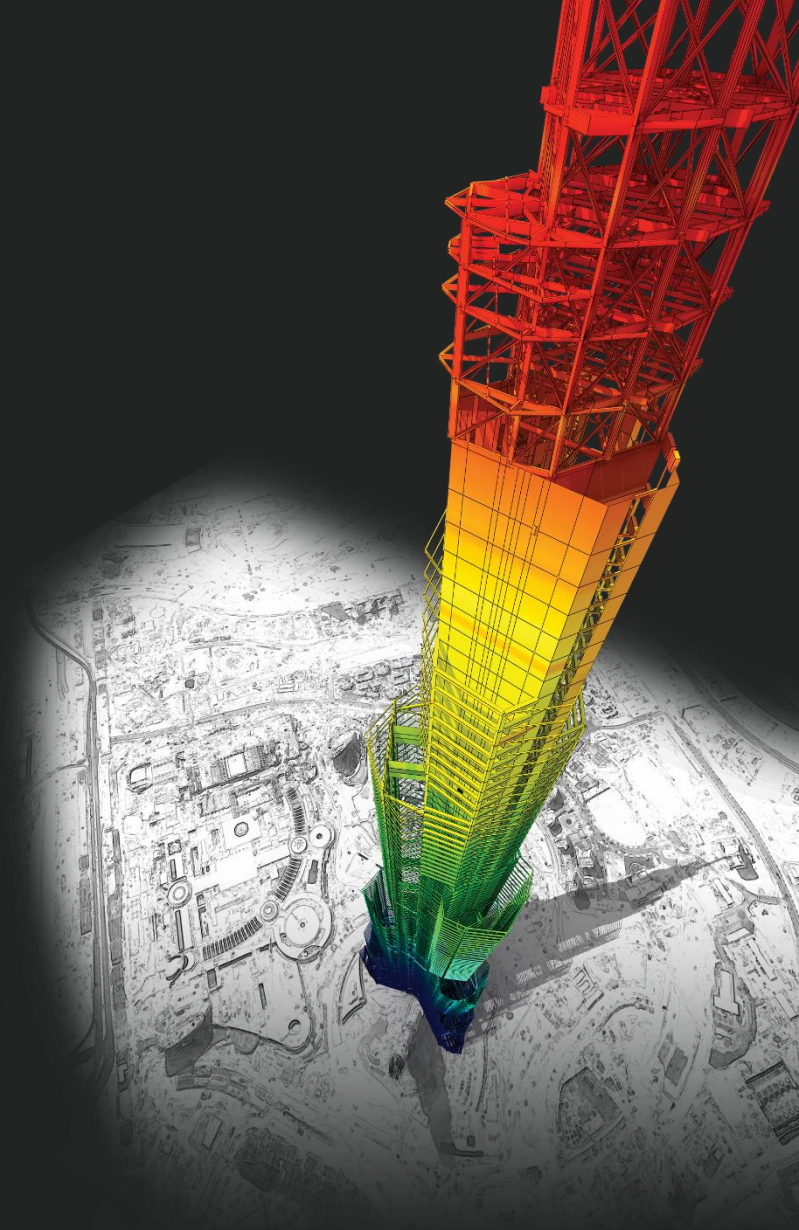
midas Gen



The eigen value analysis is not performed. Capacity Spectrum is disabled

確定

回答

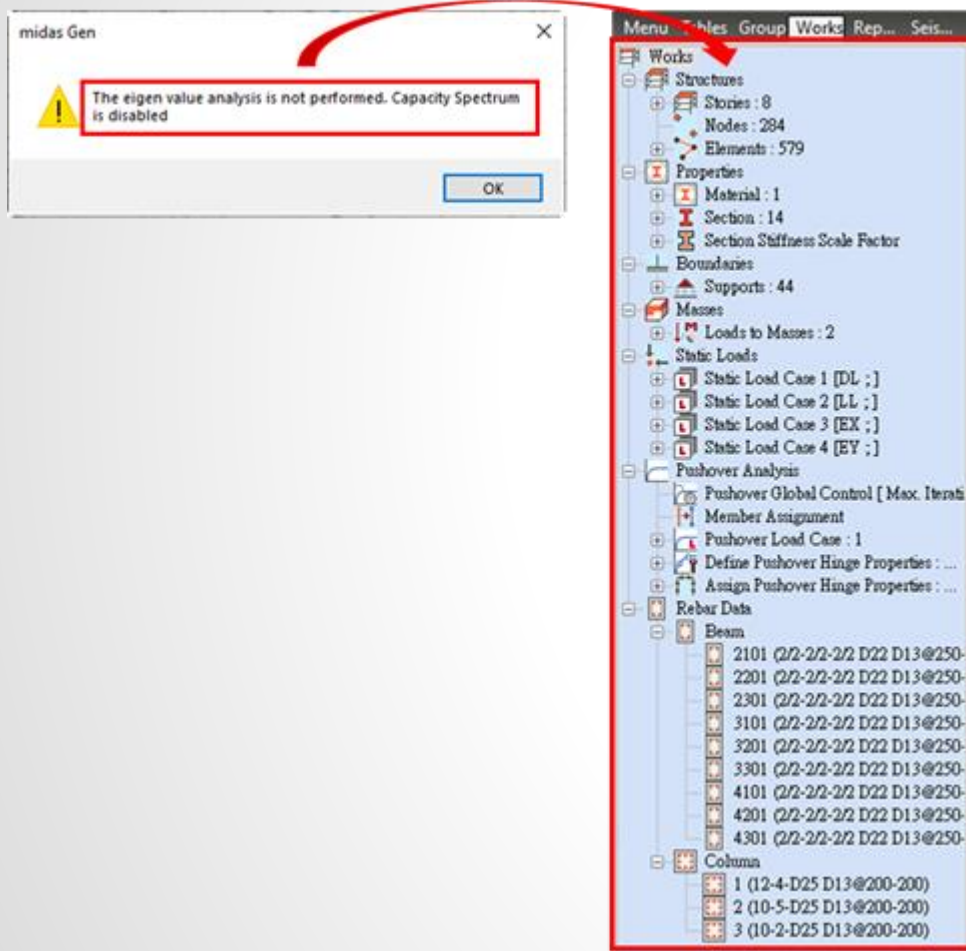


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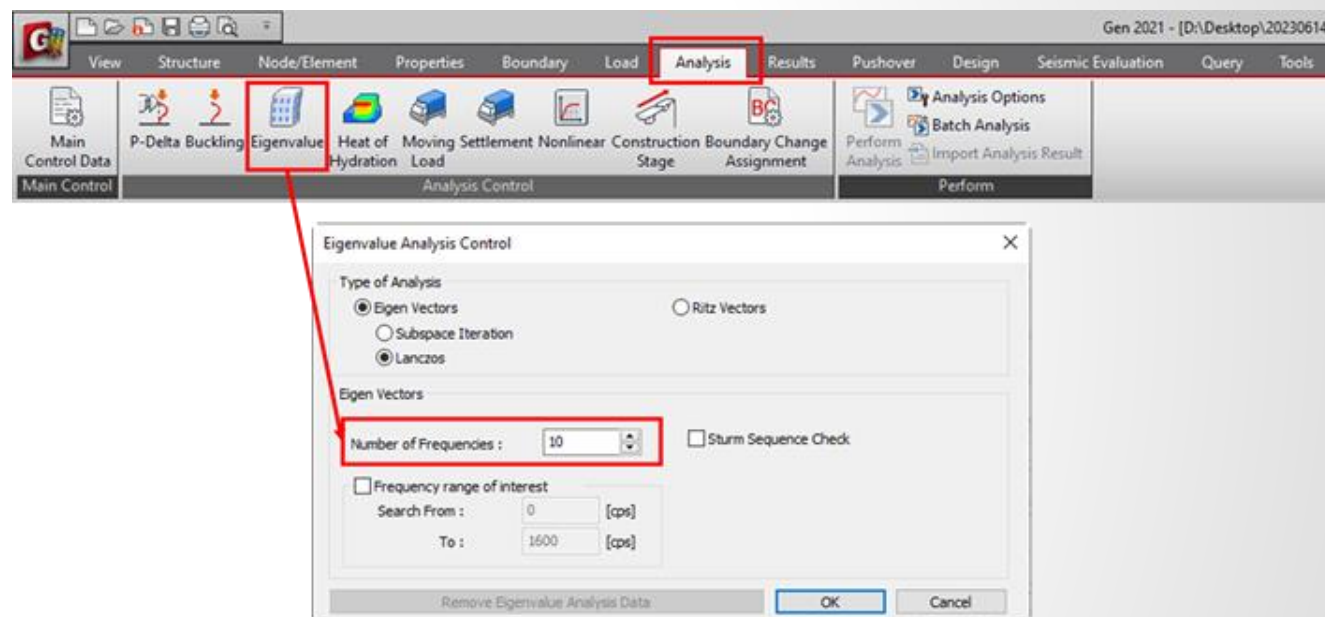
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那個問題因為您還沒設定 Eigen Value Analysis。
所以您應該設定 Eigen Value Analysis。

您還沒設定 Eigen Value Analysis。



在 Analysis > Analysis Control > Eigen Value > 然後輸入
Number of Frequency。
然後 Pushover Analysis 沒有問題。



Pushover Curve

Pushover Load Case: pushX

Plot Type

Capacity Curve (MDOF)

Base Shear vs. Displacement
 Shear Coefficient vs. Displacement
 Shear Coefficient vs. Drift
 Load Factor vs Displacement

Additional Curves at Other Nodes

Capacity Spectrum (SDOF)

For Performance Point
FEMA440 Procedure-A

For Target Displacement
EC8/OPCM

Demand Spectrum

Define Design Spectrum...

Demand Spectra at Damping Ratios (%)

Constant Period Lines at Periods (sec)

Damping & Period Parameters

Model: Bilinear Hysteretic

Transformation Factor (alpha1, PF1) Calculation

Based on 2D Behavior
 Based on 3D Behavior

Additional Pushover Step for Story Drift
Text Output
Draw

Capacity Spectrum vs Demand Spectrum

Description for Printed Output

Show Ultimate Displacement (EC8-2) D

Performance Point

Displ. Control Node: 253 Dir.: DX
Load Pattern: Static Load

Step	40
V,D	3.749e+05, 40.46
Sa,Sd	0.1114, 38.92
Teff,Deff	3.75, 42.22

Graph Display Option

Background Color

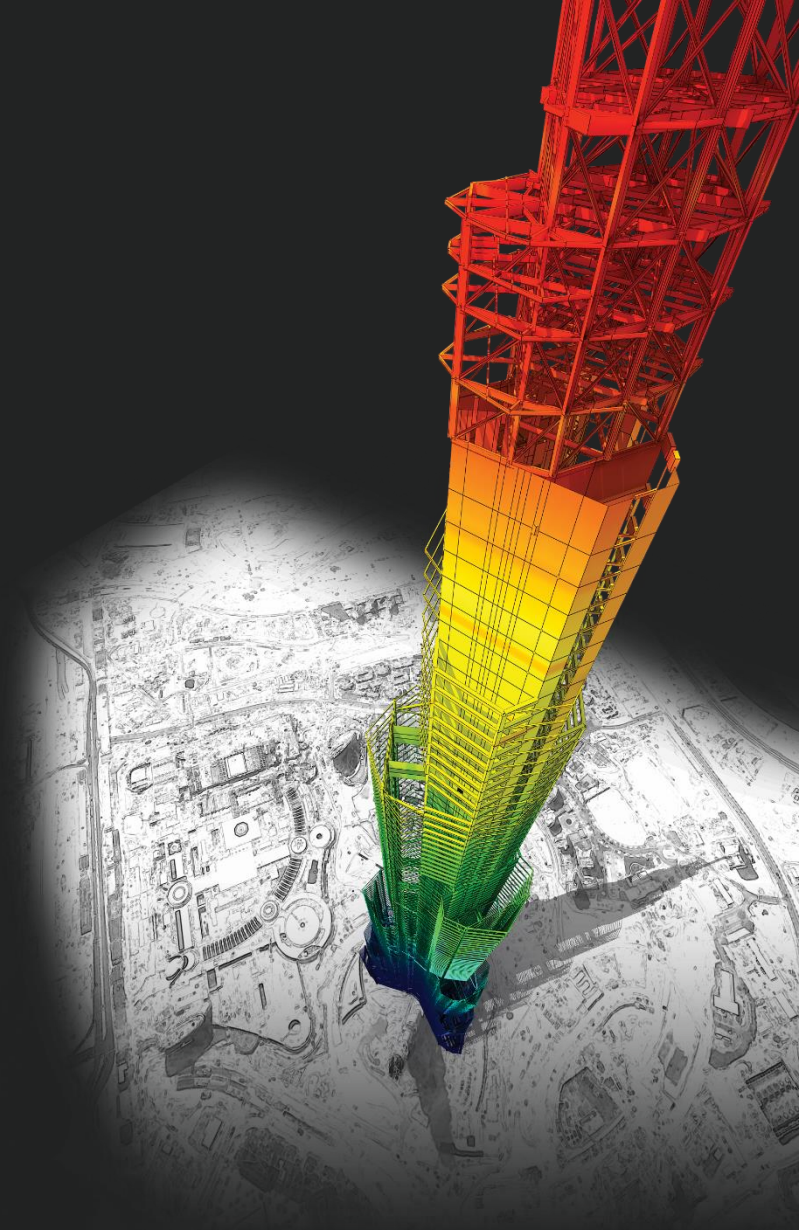
Black White

Change Graph Title
Change Graph Range
Save Window As *.bmp

Show Ref. Line
 Show Symbol

Close

Thank You



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