



Structural Analysis & Design Software



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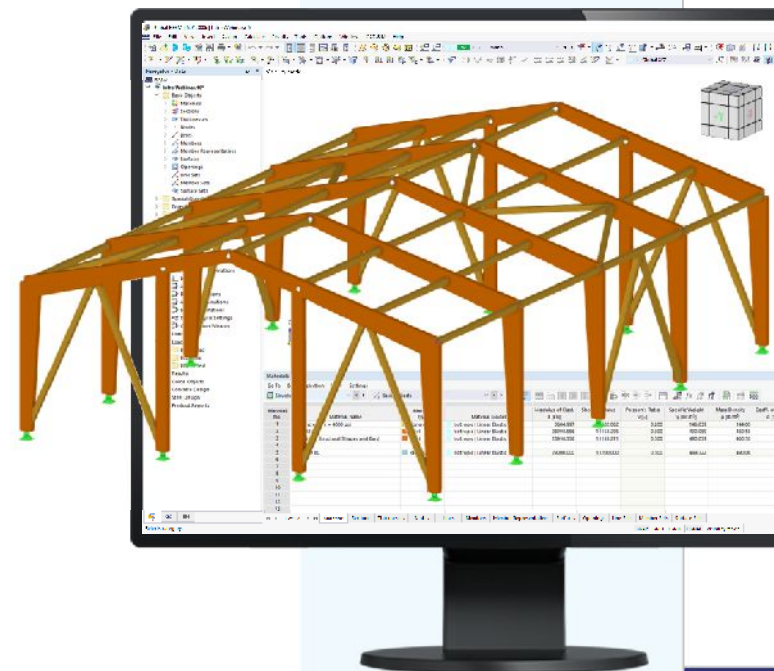
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Webinar

NDS 2018 Timber Design in RFEM 6



Questions During the Presentation

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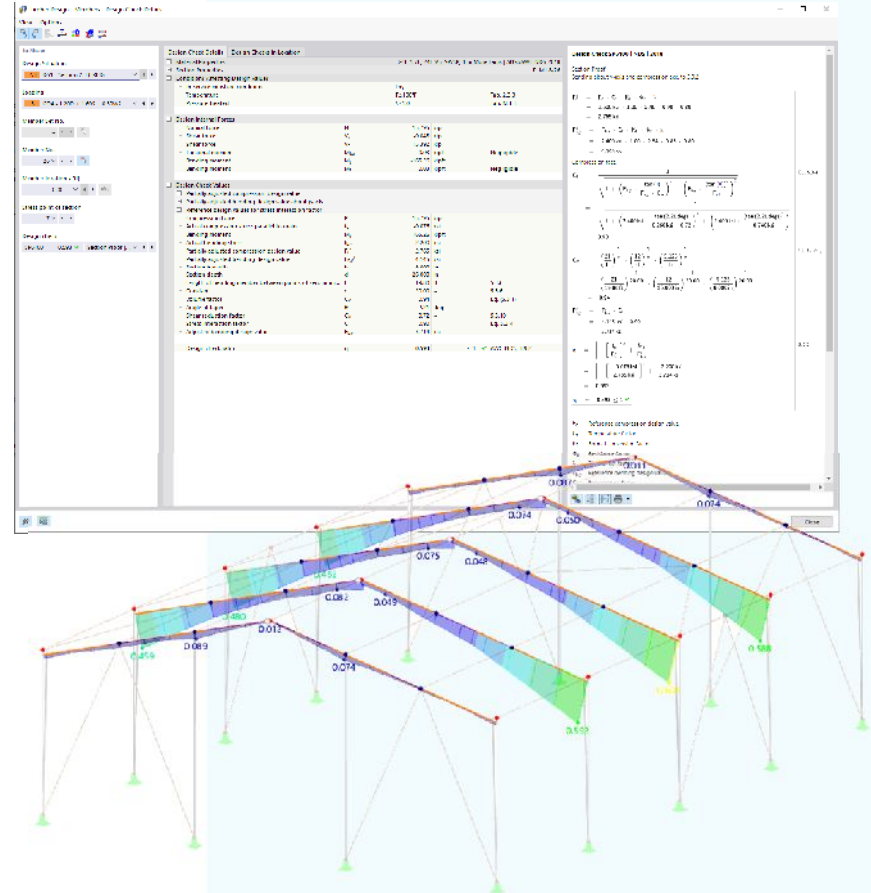
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The bottom of the control panel features the GoToWebinar logo and name.



CONTENT

- 01 Structure modeling and loading workflow in RFEM 6
- 02 Data input for Timber Design Add-on
- 03 Review of analysis and design results
- 04 New NDS timber design features available



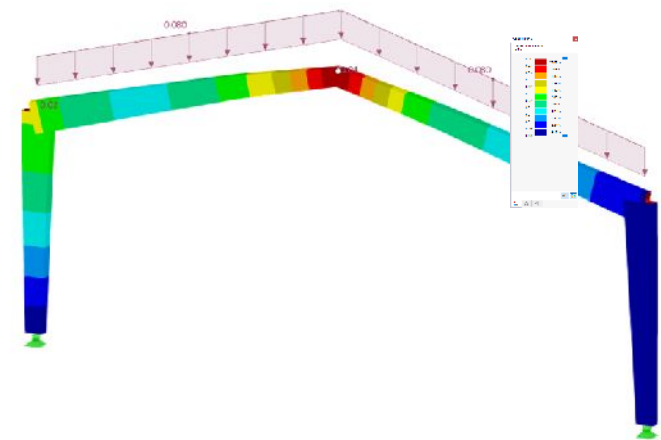
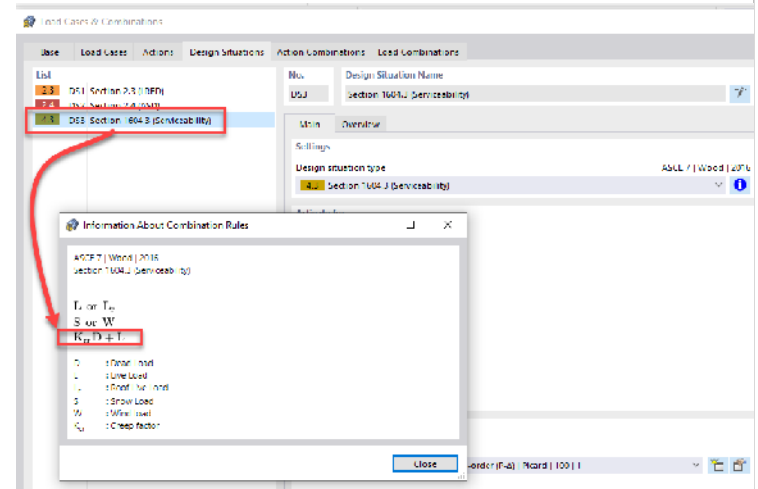
New! Creep Considerations

NDS 2018 Sect. 3.5.2. Long-Term Loading

- Time dependent deformation (creep) factor (K_{cr})

$$\Delta_T = K_{cr} \Delta_{LT} + \Delta_{ST} \quad (\text{Eqn. 3.5-1})$$

- For ASCE 7-16 | Wood combination wizard, IBC 2018 Sect. 1604.3 Design Situation (DS) created for serviceability checks
- Load Combination (CO) = $K_{cr}D + L$ within the DS to consider creep





New! Tapered Column Representative Dimension

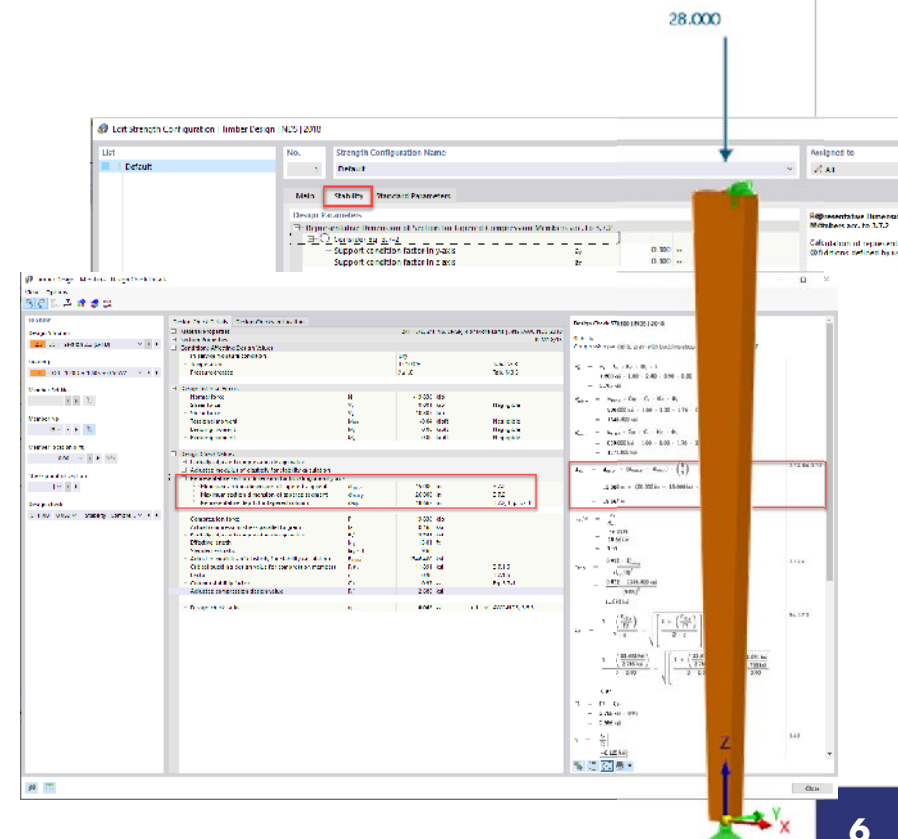
NDS 2018 Sect. 3.7.2 Tapered Columns

- Previously, depth at x-location used
- Representative dimension for tapered column (d)
- Eqn. 3.7-2 or 3.7-3 depending on support conditions

$$d = d_{\min} + (d_{\max} - d_{\min}) \left[a - 0.15 \left(1 - \frac{d_{\min}}{d_{\max}} \right) \right] \quad (\text{Eqn. 3.7-2})$$

$$d = d_{\min} + (d_{\max} - d_{\min}) \left(\frac{1}{3} \right) \quad (\text{Eqn. 3.7-3})$$

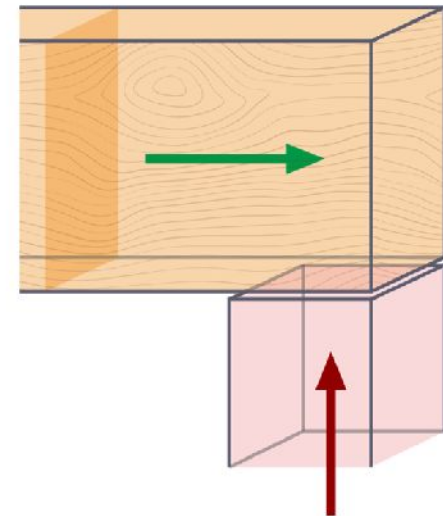
- Eqn. preference set under Timber Strength Configuration - Stability



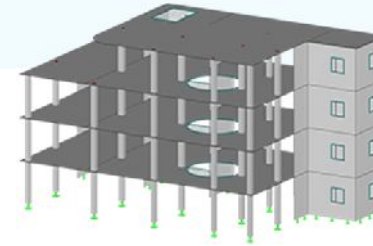
New! Compression Perpendicular to the Grain

NDS 2018 Sect. 3.10.2 Bearing Perpendicular to the Grain

- Previously, bearing area was not known
- Now defined with member "design supports"
- Consider reference design compression values perpendicular to grain at deformation limit 0.04" ($F_{c\perp}$) or 0.02" ($F_{c\perp 0.002}$) [Sect. 4.2.6]
- Calculated compression force/design value ratio



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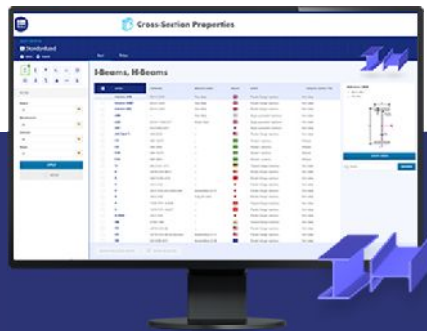
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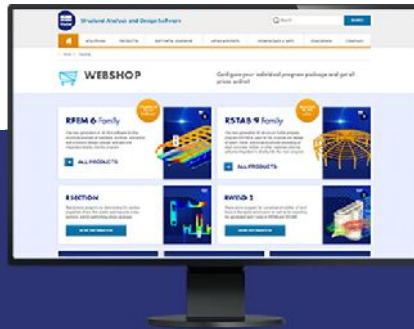
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Videos and webinars about the structural engineering software.



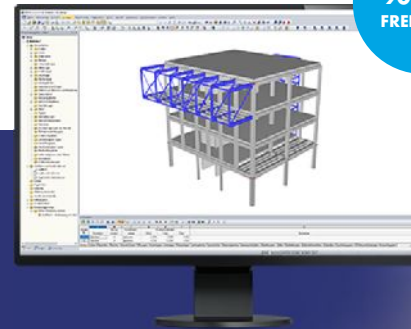
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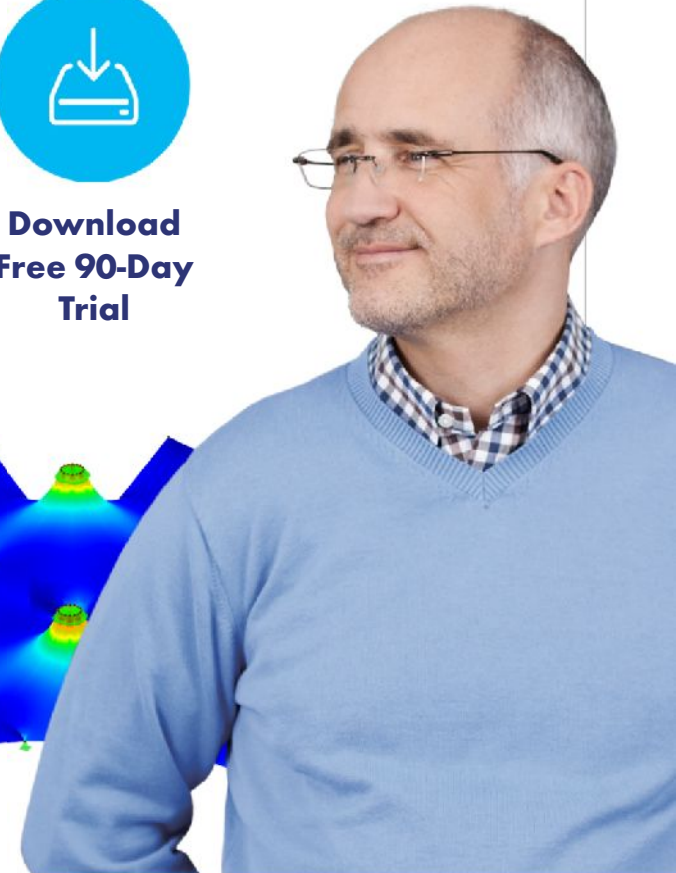
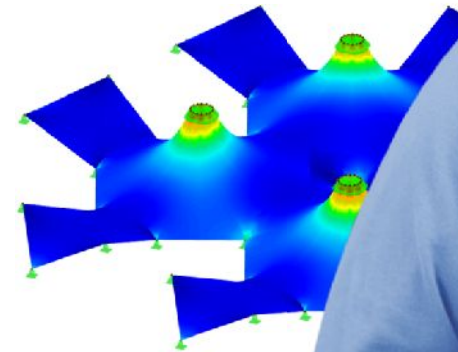
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