



# What's New

in Advance Design America 2023.1

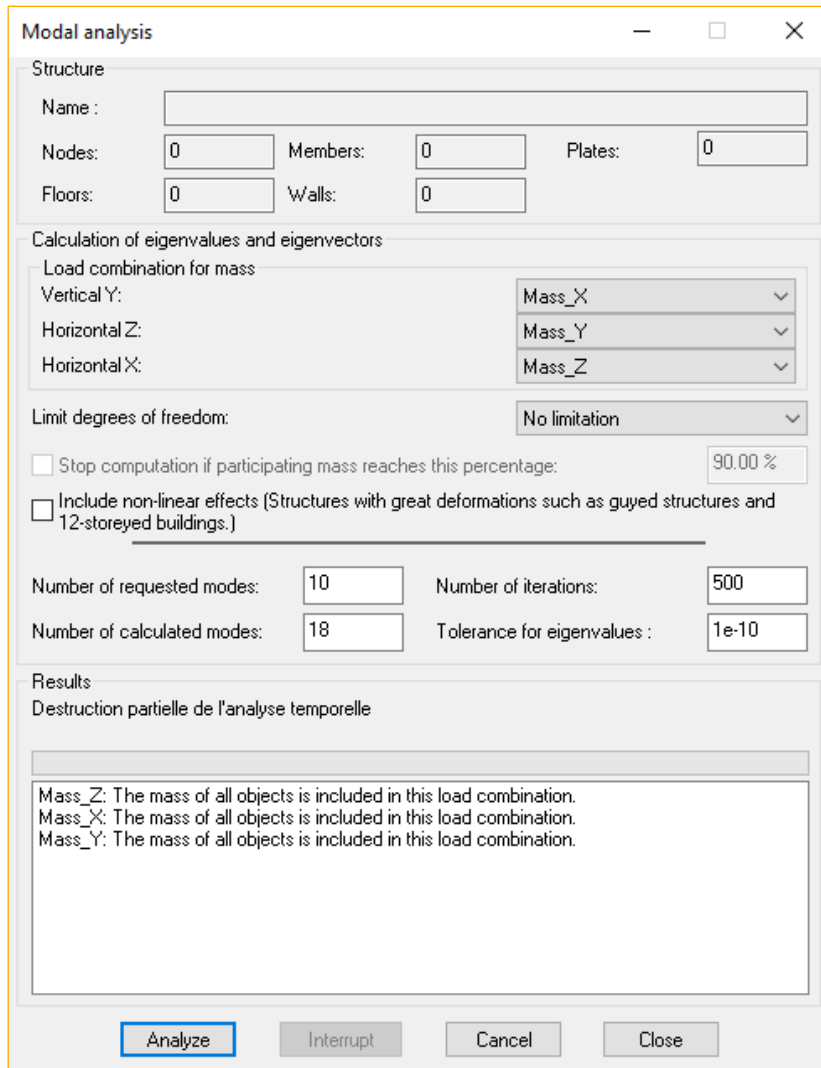


# Table of Contents

<b>1. Modal Analysis - New seismic mass .....</b>	<b>3</b>
<b>2. New deflection verification .....</b>	<b>4</b>
2.1 Inflection points .....	4
2.2 Member .....	4
2.3 Continuous system .....	4
<b>3. Bug fixes .....</b>	<b>5</b>

# 1. Modal Analysis - New seismic mass

The Modal Analysis dialog box was improved to allow a different mass load combination for each direction (X, Y, Z).



*Modal analysis*

## 2. New deflection verification

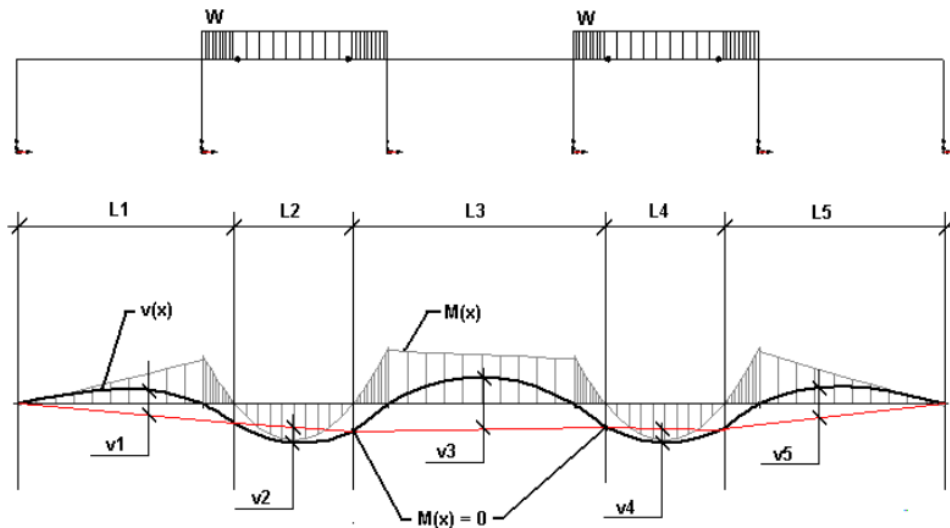
New Length/span determination methods were added to ADA: *Member* and *Continuous System*.

Specifications Spreadsheet - Deflection

ID	Number	Load combinations to consider for deflection	Instant. deflection Criterion L/	Instant. deflection Maximum Value mm	Service Criterion L/	Service Maximum Value mm	Length / Span determination method	Vibration criterion
1	1	Both	360.00	1000.00	180.00	1000.00	Inflection Point	N/A

### 2.1 Inflection points

The reference length is the distance between two inflection points on the moment diagram. This method is the one used in previous versions of ADA.



### 2.2 Member

The reference length is the length of each element.

### 2.3 Continuous system

The reference length is the full length of the continuous system. ADA will consider the continuous system as if it were a single member when calculating the deflection.

### 3. Bug fixes

- Correction of an issue in the calculation of Mv values for CNB2015;
- Correction of an issue causing ADA to crash during seismic analysis with NBC2015;
- Correction of an issue with floor elements causing a crash during seismic analysis;
- Correction of an issue with the load distribution of floor elements with triangular load patterns;
- Correction of an issue when opening models created in older versions of ADA;
- Correction of an issue with the direction of the longitudinal loads using the crane load generator.