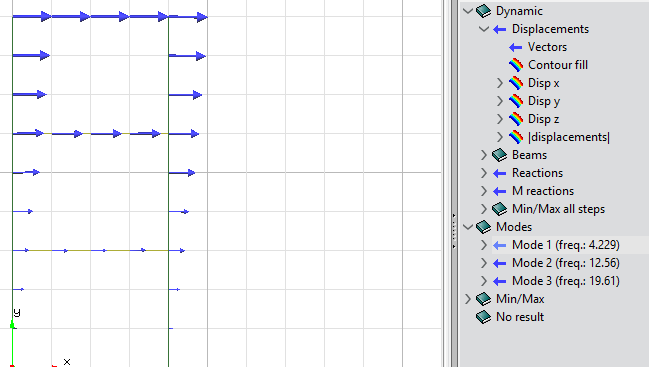
Practice 5

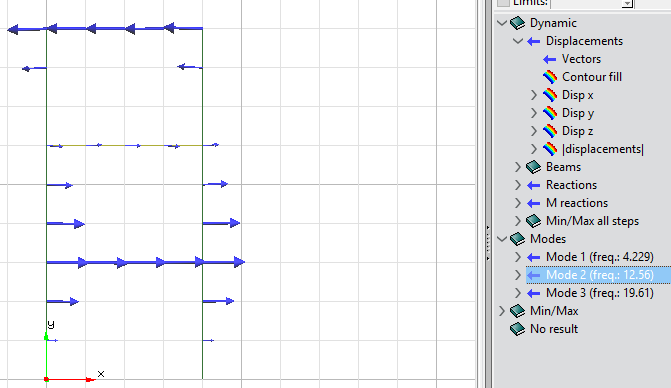
By

Carlos Moreira, Isperih Daulov, Sungchul Kim

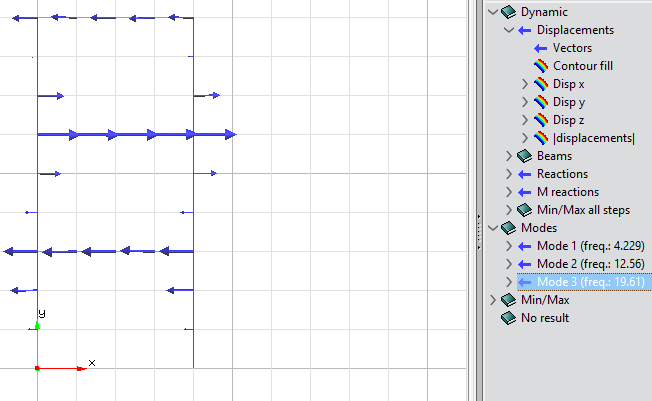
Ex1

Natural Frequency = 1

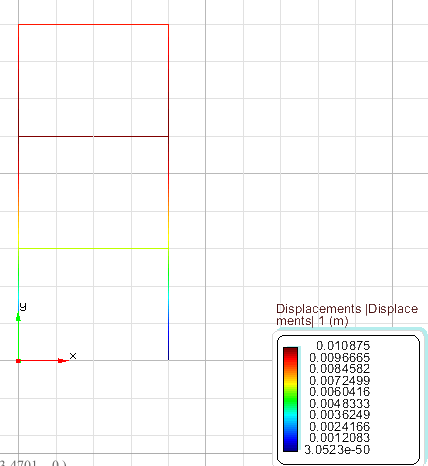
mode1

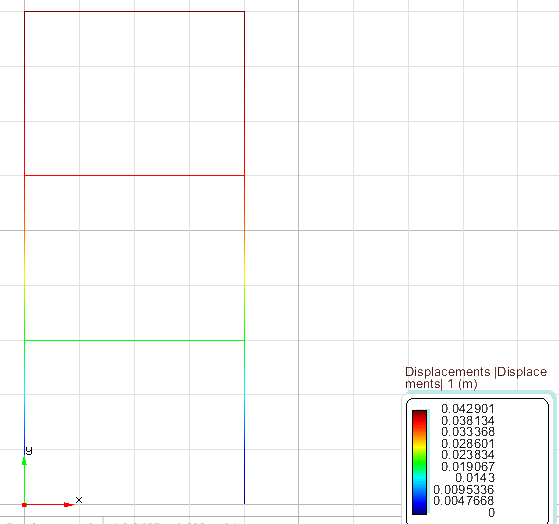


Mode 2

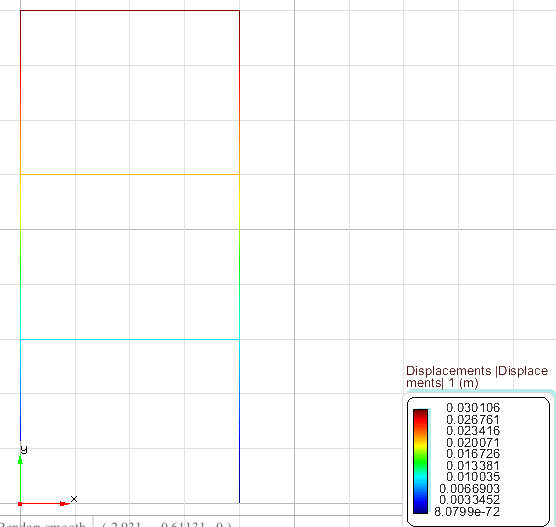
mode 3

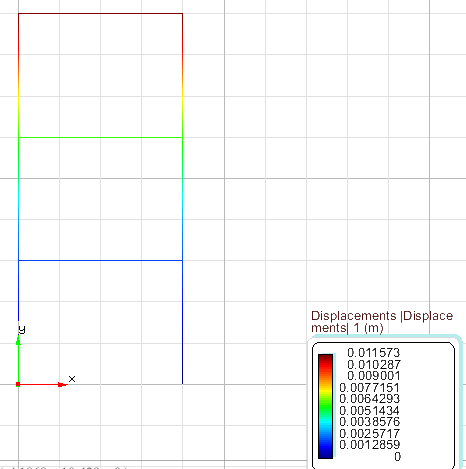
All 3 modes remain the same for the different models

Displacements

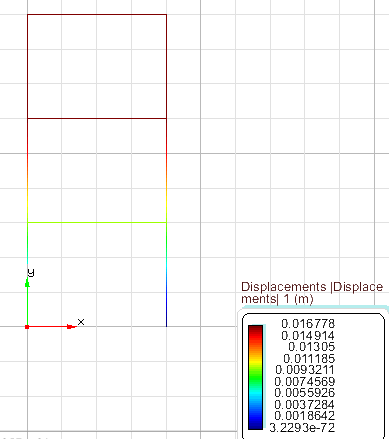
Obtained from the Direct integration.

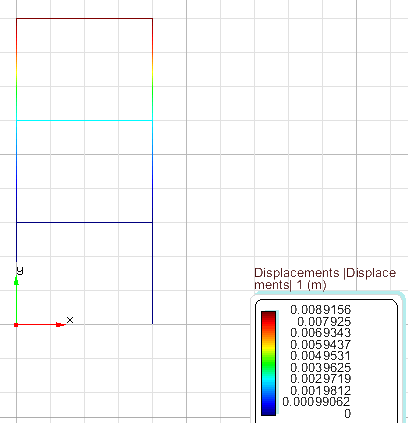
Natural Frequency= 0.75

Displacements

Obtained from Direct integartion

Natural Frequency= 1.25

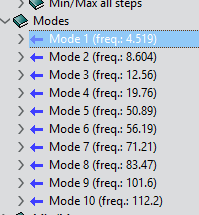
Displacements

Obtained from Direct integration

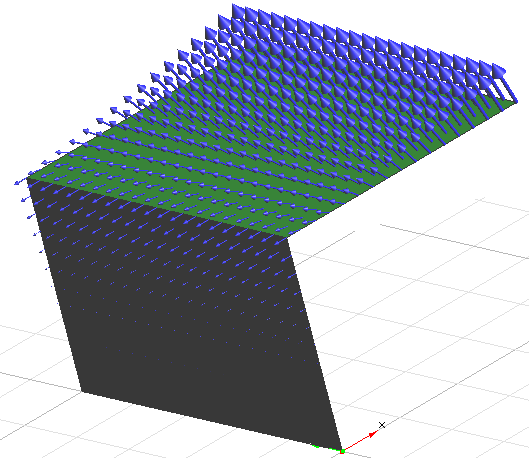
Analysis: In the direct integration method the maximum displacement is higher and minimum is equal to 0.

Ex2.

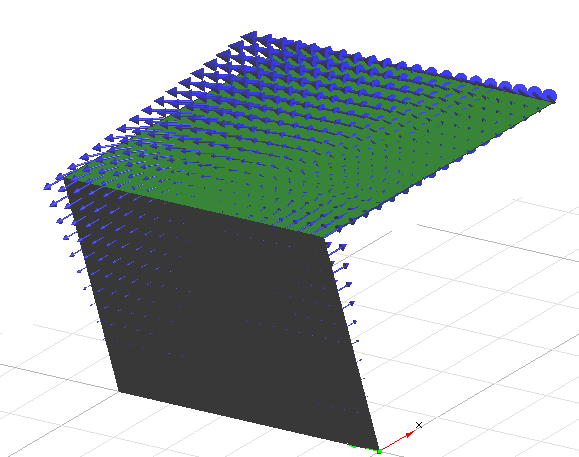
10 modes



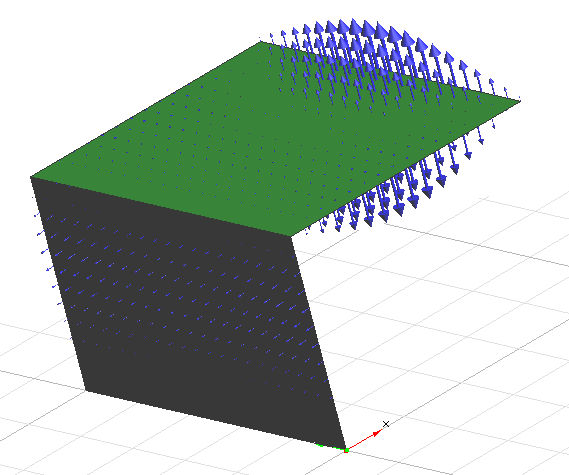
Mode 1



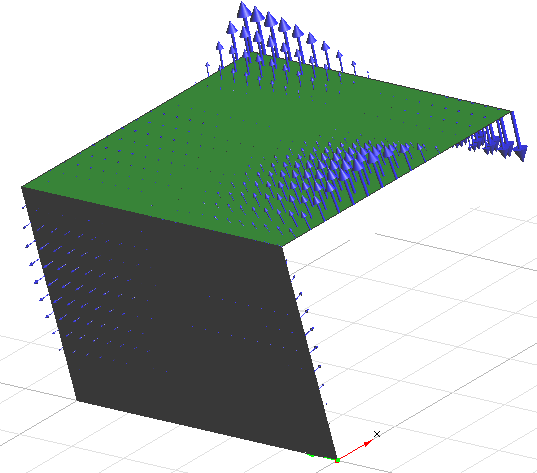
Mode 2



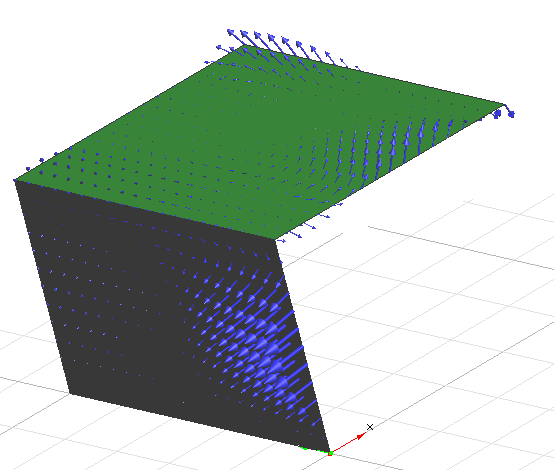
Mode 5



Mode 7



Mode 10



A problem in the work files occurred unable to collect the other data.