

TUTORIAL 1

Modal analysis of
a structure performed by
NOSA-ITACA code

Let's consider the structure sketched in the following figure, made of a linear elastic material having the following properties:

$E = 30 \text{ GPa}$	Young's modulus
$\nu = 0.2$	Poisson's module
$\rho = 2500 \text{ kg/m}^3$	mass density

We perform a modal analysis assuming the structure clamped at the points belonging to the alignment A, B and C while we fix the displacements in Y direction of the points belonging to the alignment D, E and F.

