

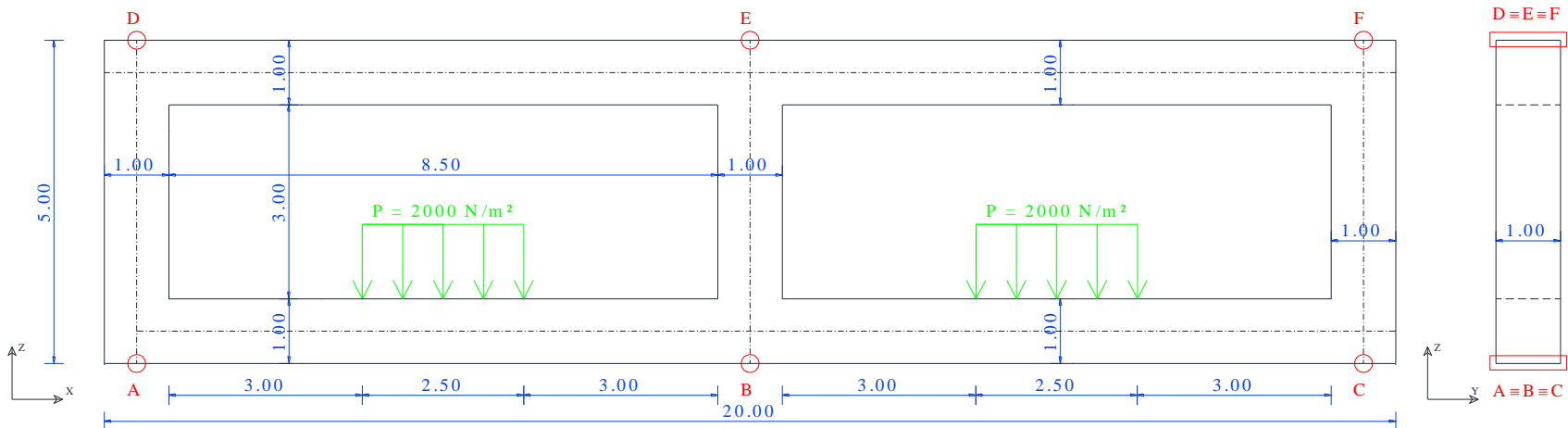
TUTORIAL 2

Elastic 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 linear analysis supposing the structure subjected to self-weight, and to the distributed load P . We assume 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.



- In this example we will learn how to import an existing mesh contained in a file .crd
 - We will see how to apply different type of loads to the structure.
 - We will see how to use the subroutine plotv.f to define as output results, the eigenvalues of the stress and strain tensor.
 - **Watch the video.**
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