

Operator MODI_BASE_MODAL

1 Drank

To define the modal base of a structure under flow. This base is obtained after a computation of coupling fluid-elastic carried out using operator `CALC_FLUI_STRU` [U4.66.02]. The product concept is of `mode_meca` type.

2 Syntax

```
mode [mode_meca] = MODI_BASE_MODALÉ (
    ◆BASE=mode , [mode_meca]
    ◆BASE_ELAS_FLUI=bef , [melasflu]
    ◆NUMÉRIQUE_VITE_FLUI=numv , [I]
    ◇NUMÉRIQUE_ORDRE=1_nuor , [1_I]
    ◇/AMOR_REDUIT=1_amor , [1_R]
    /AMOR_UNIF =amor , [R]
    ◇ INFO=/1 [DEFAULT]
    /2 , [I]
    ◇TITER=titer , [TXM]
)
```

3 Operands

◆BASE = Concept

mode of the type [mode_meca] which defines the modal characteristics before taking into account of the coupling fluid-elastic. According to the choice of the user, the operator modifies this concept of entry or creates a new concept of the type [mode_meca].

◆BASE_ELAS_FLUI = bef

Concept of the type [melasflu] which defines the new characteristics of the modes taken into account for the coupling fluid-elastic, for various rates of flow.

◆NUMÉRIQUE_VITE_FLUI = numv

Makes it possible to point on the characteristics of the modes taken into account for the coupling fluidelastic, for a rate of flow given.

◇NUMÉRIQUE_ORDRE = l_nuor

If one modifies the concept of entry of the type [mode_meca] : list sequence numbers of the nondisturbed modes to which one wishes to affect a reduced damping.

If one creates a new concept of the type [mode_meca] in output: list sequence numbers of the nondisturbed modes which are actually retained to rebuild modal base. The possibility of assigning a reduced damping to these modes is maintained, while resorting to operands AMOR_REDUIT or AMOR_UNIF below.

Note:

By default, one selects all the modes which were not taken into account for the coupling fluid-elastic. Not to give in this list of the sequence numbers corresponding to the coupled modes.

The constitution of [mode_meca] result according to the choices for operands NUME_ORDRE, AMOR_REDUIT and AMOR_UNIF is specified in paragraph [§11].

◇/AMOR_REDUIT = l_amor

List of reduced dampings assigned to the nondisturbed modes.

/AMOR_UNIF = amor

affected Reduced damping identically with the nondisturbed modes.

◇INFO = 1 or 2

Operand inactivate. To obtain the printing of the results, it is necessary to use command IMPR_RESU [U4.91.01].

◇TITER = title

Argument of type text [TXM] defining the title attached to the concept [mode_meca] in output.

