Code_Aster

Titre : Opérateur DYNA_SPEC_MODAL
Responsable : Hassan BERRO

Version default

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Clé : U4.53.23   Révision : 9309

Operator `DYNA_SPEC_MODAL`

1   Drank

Compute the response by modal recombination of a linear structure with a random excitation. This excitation is defined in the form of interspectrums of power of modal forces. The response is drawn up in the form of interspectrums of power of generalized displacements.

Each interspectral matrix is associated with a modal base for which the response is calculated. Result the product is a concept of type `interspectrum`.

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2 Syntax

```
tinsp  [interspectrum] = DYNA_SPEC_MODAL    (


♦BASE_ELAS_FLUI=bef              ,              [melasflu]

♦VITE_FLUI=vitefl                        [R]

◊PRECISION=/            1.E-3          [DEFAULT]
              /prec                [R]

♦EXCIT=_F          (

    ♦INTE_SPEC_GENE=exc         ,          [interspectrum]

          )


◊OPTION=/                "TOUT"      [DEFAULT]
              /  "DIAG",


◊TITER=titer                ,      [TXM]


          );
```

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3   Operands

3.1   Operand `BASE_ELAS_FLUI`

♦   BASE_ELAS_FLUI = bef

Concept of the melasflu `type`, defines a set of modal bases associated with the various rates of flow with the fluid.

3.2   Key word `VITE_FLUI`

♦   VITE_FLUI = vitefl

Rate of flow of the fluid for the computation of response.

3.3   Key word `accuracy`

◊   accuracy = prec

Accuracy on the rate of flow of the fluid (by default 1 E-3).

3.4   Key word `EXCIT`

♦EXCIT

Key word factor which defines the excitation.

♦INTE_SPEC_GENE   = exc

Concept of type `interspectrum`, defines the interspectrums of excitation (modal forces).

3.5   Operand `OPTION`

◊OPTION   = "TOUT" or "DIAG"

Argument of type text which indicates if one wants to calculate all the interspectrums "TOUT" or autospectrums only "DIAG". By default one calculates all the interspectrums.

3.6   Operand `TITER`

◊TITER = title

Argument of type text defining the title attached to the concept `interspectrum` in output.