
Operator ASSE_VECT_GENE

1 Drank

To substructure project the loadings on the basis of the modal base one.

In the frame of a harmonic computation using the methods of substructuring, operator `ASSE_VECT_GENE` carries out the projection of the loadings of the `cham_no_DEPL_R` type resulting from `ASSE_VECTEUR` [U4.61.23], on the modal base of the substructure defined by `DEFI_BASE_MODAL` [U4.64.02]. The generalized vectors thus obtained are assembled from the definition of `modele` generalized resulting from `DEFI_MODELE_GENE` [U4.65.02]. The final assembled generalized vector is built on the classification of generalized degrees of freedom established as a preliminary by the operator `NUME_DDL_GENE` [U4.65.03].

The result concept produced by this operator is of `vect_asse_gene` type.

2 Syntax

```
vect_gene [vect_asse_gene] = ASSE_VECT_GENE (  
    ♦ NUME_DDL_GENE = nu_gene,                [nume_ddl_gene]  
    ♦ METHODE =/ "CLASSIQUE" ,                [DEFAULT]  
              /"INITIAL" ,  
    # If METHODE=' CLASSIQUE':  
    ♦ CHAR_SOUS_STRUC = _F (  
        ♦ SOUS_STRUC = "nom_sstruc",          [kN]  
        ♦ VECT_ASSE = vecas,                  [cham_no_DEPL_R]  
    ),  
)
```

3 Operands

3.1 Operand NUME_DDL_GENE

◆ NUME_DDL_GENE = nu_gene

Name of the concept `nume_ddl_gene` resulting from the operator `NUME_DDL_GENE` [U4.65.03] who defines the classification of degrees of freedom to be used for the assembled generalized vector.

3.2 Operand METHODE

◇ METHODE = "CLASSIQUE", "INITIAL"

Type of method used for the assembly of the matrixes. Method "INITIAL" makes it possible to initialize a null vector of `vect_asse_gene` type which one can fill by methods python. This method was created for the development.

3.3 Key word CHAR_SOUS_STRUC

◆CHAR_SOUS_STRUC

Key word factor allowing to define the loadings applied to structure. The definition of the loading is done by the data of the assembled vector which is associated to him and of the name of under-structure to which it applies.

3.3.1 Operand SOUS_STRUC

◆SOUS_STRUC = "nom_sstruc"

Name of the substructure to which the loading is applied. It must have been as a preliminary defined by the operator `DEFI_MODELE_GENE` [U4.65.02].

3.3.2 Operand VECT_ASSE

◆VECT_ASSE = vecas

Name of the concept `cham_no_DEPL_R` resulting from `ASSE_VECTEUR` [U4.61.23] which defines the spatial distribution of the loading applied to substructure.