

Operator LIRE_IMPE_MISS

1 Goal

To build an assembled matrix projected on a basis of RITZ starting from a file of impedances of ground calculated by software MISS3D. The projected matrix result will be used by the harmonic operator of calculation in generalized components `DYNA_LINE_HARM` [U4.53.11]).

Product a concept generalized vector of type `matr_asse_gene_C`.

Contents

1Goal.....	1
2Syntax.....	3
3Operands.....	4
3.1Operand BASE.....	4
3.2Operand NUME_DDL_GENE.....	4
3.3Operands FREQ_EXTR/INST_EXTR.....	4
3.4Operand UNITE_RESU_IMPE.....	4
3.5Operand ISSF.....	4
3.6Operand SYME.....	4
3.7Operand TYPE.....	4

2 Syntax

```
matgene [matr_asse_gene_C] = LIRE_IMPE_MISS

( ♦ BASE = Ba, [mode_meca]

♦ NUME_DDL_GENE = nu_gene, [nume_ddl_gene]

♦ / FREQ_EXTR = freq, [R]
  / INST_EXTR = inst, [R]

◇ ISSF = / 'NOT', [DEFECT]
        / 'YES',

◇ SYME = / 'YES',

◇ UNITE_RESU_IMPE = / uresimp, [I]
                   / 30, [DEFECT]

◇ TYPE= / 'BINARY'
        / 'ASCII' [DEFECT]

)
```

3 Operands

3.1 Operand BASE

- ◆ BASE = Ba
Concept of the type `mode_meca` who contains the vectors defining the subspace of projection.

3.2 Operand NUME_DDL_GENE

- ◆ NUME_DDL_GENE = nu_gene
Generalized classification built on the basis Ba.

3.3 Operands FREQ_EXTR/INST_EXTR

- ◆ / FREQ_EXTR = freq
/ INST_EXTR = inst

Actual value of the parameter of extraction of the matrix of impedance of ground. It acts is of a frequency (keyword `FREQ_EXTR`) for complex impedances calculated by `CALC_MISS` option `TYPE_RESU=' FICHIER'`, that is to say one moment (keyword `INST_EXTR`) for evolutions of temporal impedance obtained by method of Laplace by `CALC_MISS` option `TYPE_RESU=' FICHIER_TEMPS'` .

3.4 Operand UNITE_RESU_IMPE

UNITE_RESU_IMPE = uresimp

Logical unit of the matrix of impedance of ground calculated by `CALC_MISS` option `TYPE_RESU=' FICHIER'` or option `TYPE_RESU=' FICHIER_TEMPS'`.

This matrix can be either already calculated and given like entry in the profile of study, or result of `CALC_MISS` in the same command file.

3.5 Operand ISSF

- ◆ ISSF = / 'NOT',
/ 'YES',

If 'YES', taken into account of the format specific to the studies by MISS3D in interaction ground-structure-fluid in accordance with this same keyword in `CALC_MISS`.

3.6 Operand SYME

- ◆ SYME = / 'YES',

If Présent, allows to symmetrize the terms of the matrix of impedance read.

3.7 Operand TYPE

- ◆ TYPE= / 'BINARY'
/ 'ASCII' [DEFECT]

This operand makes it possible to read the impedances calculated by the order `CALC_MISS` in a file of binary format if necessary.