
Order DEFI_SOL_MISS

1 Drank

To produce an array containing of the necessary information to the description of a file of soil for software MISS3D.

Data entered by the command DEFI_SOL_MISS are:

- the description of the characteristics of the materials constitutive of the layers of a laminated soil,
- the geometrical description and the assignment of the materials of the successive layers,
- the positioning of the levels sources and receivers compared to the soil horizons necessary to the computation of the Green's functions.

The array of soil thus produced will be provided in argument of MACRO_MISS_3D [U7.03.11].

2 Syntax

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tabsol [array] = DEFI_SOL_MISS      (

    ♦ MATERIAU = _F      ( ♦ E = Young,           [R]
                          ♦ NU = nu ,             [R]
                          ♦ RHO = rho,           [R]
                          ♦ AMOR_HYST = beta,     [R]
                          ),
    ♦ COUCHE = _F      (
                          ♦ /EPAIS = thick,      [R]
                          ♦ NUMÉRIQUE_MATE = numat , [I]
                          ♦ SOURCE = "NON",
[DEFAULT]
                          / "OUI",
                          ♦ RECEPTEUR = "NON",
[DEFAULT]
                          / "OUI",

                          /SUBSTRATUM = "NON", [TXM]
                          / "OUI",
                          ♦ NUMÉRIQUE_MATE = numat , [I]
                          ),

    ♦ INFO = /1 ,
[DEFAULT]
        /2 ,

    ♦ TITER = titer , [l_Kn]

)
```

3 Operands

3.1 Key word MATERIAU

MATERIAU

Key word factor répétable allowing the description of the characteristics of the materials constitutive of the layers of a laminated soil, material by material.

3.1.1 Operands E/NU/RHO/AMOR_HYST

Make it possible respectively to define the actual values of the Young modulus, the Poisson's ratio, the density and the hysteretic damping of the current material.

3.2 Key word COUCHE

COUCHE

Key word factor répétable allowing the geometrical description and the assignment of the materials sleeps by layer, the possible positioning of a level source and receiver compared to the current soil horizon, which is necessary to the computation of the Green's functions.

3.2.1 Operand NUME_MATE

◆NUMÉRIQUE_MATE = numat

Number of the material in the order of description of the occurrences of key word MATERIAU of the current layer

3.2.2 Operands EPAIS/SUBSTRATUM

Is one defines the layer as substratum (SUBSTRATUM=' OUI '), in general for the last layer. Either one provides the value of the thickness of the layer.

3.2.3 Operands SOURCE/RECEPTEUR

Make it possible to determine whether one respectively positioned a level source and/or receiver at the top of the current layer if "OUI".

3.3 Operand TITER

◇TITER = title

Makes it possible to the user to define a title for the array of soil.

3.4 Operand INFO

Indicates a level of printing for information in the file "MESSAGE":

INFO = 1 : no printing

INFO = 2 : printing of the array of soil