Order **DEFI_SOL_MISS**

1. **Goal**

To produce a table containing the necessary information to the description of a file of ground for software MISS3D.

Data entered by the order **DEFI_SOL_MISS** are:

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

The table of ground thus produced will be provided in argument of **CALC_MISS [U7.03.12]**.
2 Syntax

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tabsol [table] = DEFI_SOL_MISS

◊ MATERIAL = _F ( ◆ E = Young, [R]
◊ NAKED = naked, [R]
◊ RHO = rho, [R]
◊ AMOR_HYST = beta, [R]
),
◊ SLEEP = _F ( ◆ / THICK = thick, [R]
◊ / NUME_MATE = numat , [I]
◊ SOURCE = / ‘NOT’, [DEFECT]
◊ / ‘YES’,
◊ RECEIVER = / ‘NOT’, [DEFECT]
◊ / ‘YES’,
/ SUBSTRATUM = / ‘NOT’, [TXM]
/ ‘YES’,
◊ NUME_MATE = numat , [I]
),

◊ INFORMATION = / 1, [DEFECT]
/ 2,
◊ TITLE = title, [l_Kn]

)```
3 Operands

3.1 Keyword MATERIAL

MATERIAL

Keyword factor répétable allowing the description of the characteristics of materials constitutive of the layers of a laminated ground, material by material.

3.1.1 Operands E/NU/RHO/AMOR_HYST

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

3.2 Keyword SLEEP

SLEEP

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

Notice:
The description of the layers is done obligatorily in the vertical direction going down

3.2.1 Operand NUME_MATE

NUME_MATE = numat

Number of material in the order of description of the occurrences of the keyword MATERIAL current layer

3.2.2 Operands THICK/SUBSTRATUM

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

3.2.3 Operands SOURCE/RECEPTEUR

Allow to determine whether one respectively positioned a level source and/or receiver at the top of the current layer if 'OUI'.

3.3 Operand TITLE

TITLE = title

Allows the user to define a title for the table of ground.

3.4 Operand INFORMATION

Indicate a level of impression for information in the file ‘MESSAGE’:

INFORMATION = 1: no impression
INFORMATION = 2: impression of the table of ground