Oasys



Oasys GSA

Result Import



8 Fitzroy Street London W1T 4BJ

Telephone: +44 (0) 20 7755 4515

Central Square Forth Street Newcastle Upon Tyne NE1 3PL

Telephone: +44 (0) 191 238 7559

e-mail: oasys@arup.com Website: oasys-software.com

Oasys GSA

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GSA Result Import

Normally GSA is used to build and analyse models, but on occasions it is useful to bring results into GSA which may have been generated in some other program. This can be done with the Import | Results command, which uses a GWA format and requires some keywords to create a dummy analysis tasks and cases.

Required keywords

The file should contain a TASK record. This should be set to type generic e.g.

```
TASK → <task> → <name> → <stage> → GENERIC
```

The GENERIC option tells GSA that this is a generic case which it cannot analyse.

Then for each analysis case an ANAL record

```
ANAL → <case> → <name> → <task> → R#
```

The R# option tells GSA that this is a response case and gives the case number.

Supported keywords

Once these headers are defined the rest of the file can be a GWA file with results. The following keywords can be included:

DISP nodal displacements

ROTN nodal rotations

DISP_ELEM element displacements

ROTN ELEM element rotations

FORCE 0D/1D element forces

MOMENT 0D/1D element moments

FORCE_2D 2D element forces

MOMENT_2D 2D element moments

SHEAR_2D 2D element shear forces

STRESS_2D 2D element stresses

STRESS_3D 3D element stresses

REACT_FORCE nodal reaction forces

REACT_MOMENT modal reaction moments

TOTAL_FORCE total forces

TOTAL_MOMENT total moments

GLOB_ENERGY global energy

MAT_ENERGY material energy

STRAIN_ENERGY element strain energy