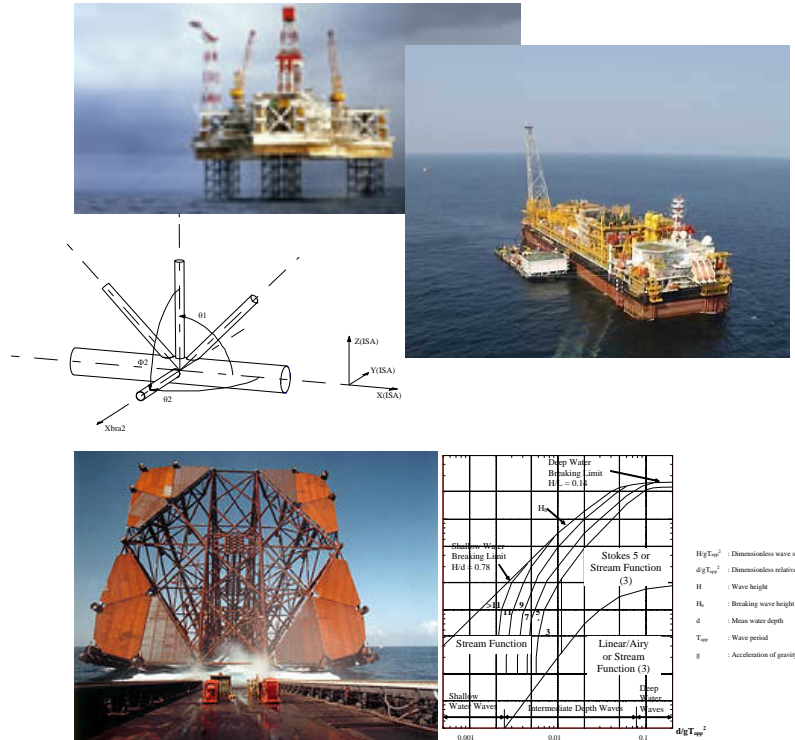


FASTRUDL/NSO™

FEM tool for Offshore and Marine applications

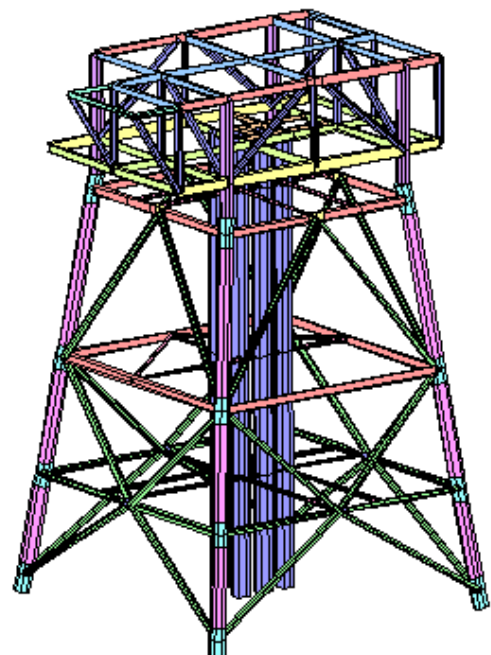
FASTRUDL/NSO™ (New STRUDL Offshore) was developed by *PRINCIPIA* from IUG's (Ices User's Group) version of STRUDL, and by *BureauVeritas/C.Briwand* from the IBM version of ICES-STRUDL developed by IBM Data Centers in France, the Netherlands and the United Kingdom, themselves derived from the original Massachusetts Institute of Technology (MIT)'s STRUDL-II program. The MIT version resulted from the Integrated Civil Engineering System (ICES) project, initiated by Professor C.L.Miller, former head of the Department of Civil Engineering, Massachusetts Institute of Technology.

FASTRUDL/NSO is designed for engineers and professional people employed in a wide variety of application areas, for example: construction industry, shipbuilding industry, civil engineering, offshore construction industry, aerospace industry, and so on.



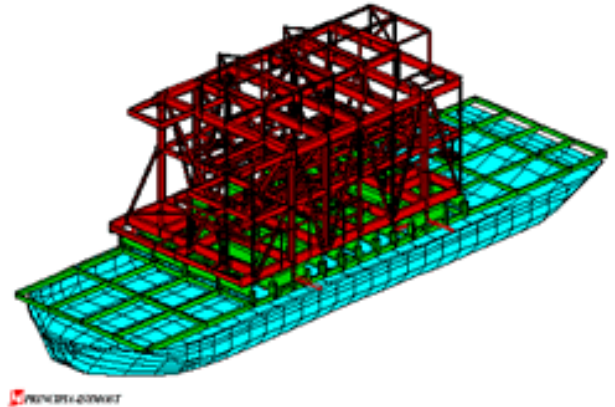
Main features

- Fully interfaced with ISYMOST
- Frames and Finite Elements models.
- Advanced Super-Elements facilities for large analysis (500.000 d.o.f. and more).
- Powerful Static and Dynamic Analyses, based on an advanced system of dynamic data allocation and database access.
- Easy gap and contact definition.
- Static/Dynamic solvers.
- Linear/Nonlinear analyses.
- Calculation of local flexibilities
- Members Code Checks (AISC, Eurocode, etc.)
- Tables of American, European or user profiles



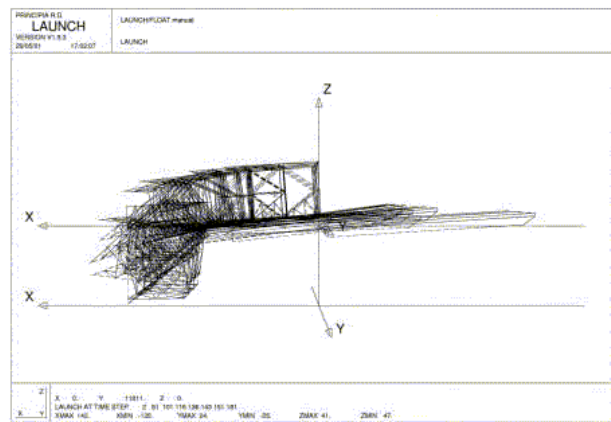
Offshore

- Wave Loads generator (Morrison).
- Code Checks (API WSD and LRFD, NPD,...)
- Fatigue Analysis (deterministic and spectral).
- Calculation of local flexibilities.
- Detailed Stress Concentration Factors (Efthymiou, Kuang, Lloyds, DNV, etc.).
- Soil/Structure interaction (PY and TZ curves).



Float / Launch

- Dynamic Launching of jackets.
- Upending.
- Equilibrium/Stability Analysis.
- Structural analysis at any time step.



Coming soon

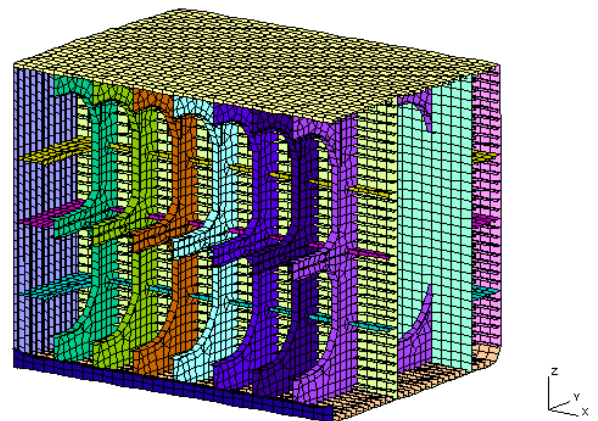
- P-Delta effect implementation
- Pushover analysis
- MSC/NASTRAN interface
- Code checks : API & AISC 2005

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Technical support

Best in class client support is provided by email at nso-isymost@principia.fr. Our team of experienced structural engineers will always be happy to bring timely responses to all your queries.



PRINCIPIA-ISYMOST v4.68

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