WHY CHOOSE SEDS
- Wide range of analysis capabilities
- Qualified team of professionals
- Customized modeling tools
- Quick turn-around time
- Validated software
- Impeccable track record
- Civilian and military designs
- Compatibility with other tools
- Testimonial of satisfied customers

SOFTWARE
Femap | MSC Patran | MSC Dytran | MSC Nastran | CSR BulkCheck | CSR TankCheck | Blender Designer Noise | ABS DLA | ABS SFA | ABS SafeHull | LR ShipRight | In-house software | Python

CAPABILITIES
Quick modeling
In-house tools to generate complicated models swiftly, with excellent mesh control.

Three-hold Analysis
Cargo region analysis for bulk carriers & tankers based on CSR and HCSR, modified bulk carriers, class-specific notations and so on.

Dynamic Loading Approach (DLA)
A first-principle based enhanced analysis of entire vessel structure for Container Ships, LNG Carriers, Tankers and Bulk Carriers

Spectral Fatigue Analysis (SFA)
Direct and detailed analysis of critical connections to achieve a target fatigue life based on loads generated specific to the seaway.
CAPABILITIES

**Noise Prediction**
Statistical energy approach to predict noise levels within +/- 3 dB accuracy

Free vibration and forced frequency response vibration analysis of global hull girder as well as local structures against excitation from main engine, hull surface pressure due to propeller etc.

**Vibration Analysis**

Static analysis of metallic and composite structures

Analysis of structures where high or concentrated loads are expected, to an appropriate criteria and factor of safety. This include structure in way of cranes, winches, helideck, gun foundations, mooring fittings, lifting appliances etc. Composites with laminate as well as sandwich panel construction can be analyzed.

Vibration excitation—hull surface pressure from propeller

**MAJOR PROJECTS**

Full Ship Analysis—33 knots Fast Patrol Vessel

Dynamic Loading Approach—37.5k Handy size Bulk carrier

Conversion—Tanker to FPSO

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