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with a broad range of offshore-specific fatigue analyses, including wind, wave, spectral, time history, and deterministic. Ensure compliance by applying automated, fully inclusive, interactive fatigue design and analysis.

SACS Fatigue Life Evaluation Software for Offshore Structures

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SACS Fatigue includes offshore-specific calculations for complex, variable stress concentration factors, making it fast and easy to comply with design codes. SACS Fatigue Enterprise expands on SACS Fatigue by adding integrated analysis of dynamic forces—including spectral and extreme wind fatigue—helping you save time and avoid errors. It also includes

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integrated wave load analysis, which includes extreme wave effects.

SACS Fatigue - Virtuosity

The analysis can then be completed using the rainflow cycle counting for the relative displacement response and Miner's accumulated fatigue equation. Steinberg's Fatigue Limit Equation

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Figure 1. Component and Lead Wires
undergoing Bending Motion L B Z
Relative Motion h Component Relative
Motion ComponentComponent

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A tow fatigue analysis may be performed in SACS by using the Tow and Fatigue programs. This post describes the methods used to generate a transfer function from the Tow program and the response spectrum and damage in the Fatigue program. Sample analyses have been provided to illustrate some of the

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methods described below. Response
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Features | Structural Analysis and Design | SAP2000

This paper outlines the basis of current fatigue design rules for welded structures. Covers how they are applied in different specifications, including consideration of residual stresses, size effect, material, welding process and environment. Areas needing further

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research are highlighted. Hot spot stress approach to keep pace with the increasing use of FEA is discussed.

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