

## **ANSA/META FOR DURABILITY & FATIGUE ANALYSES**

**Christos Tegos<sup>\*</sup>, Ioannis Asaniotis**

BETA CAE Systems SA, Greece

### **KEYWORDS –**

Durability, Fatigue, Analysis tools, Loadcase set-up, Spotwelds, Seamwelds

### **ABSTRACT –**

It is commonly accepted that there are time-consuming tasks for the daily work of a Durability analyst. Some actions that should be repeated for numerous models as well as specific modelling steps which are load case dependent are encountered from BETA suite in such manner to address automation and achieve CAE time reduction in an efficient level. Among others, the tools are compliant to the most common solvers for durability analysis like Abaqus, Nastran, ANSYS and PERMAS in order to meet their requirements. Fatigue analysis as a part of the durability analysis plays also an important role during the development of structures. As numerous solvers and different methods exist, the CAE process of conducting fatigue analysis can hinder obstacles that can affect the quality of the results.

BETA CAE Systems, through the ANSA / META pre- and post- processors, offers different tools to cover all the multiple solution types required for advanced durability and fatigue analyses according to each solver.

This presentation will focus on the latest developments of ANSA & META for those analyses.

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