

FATIQ^B
LIFE PREDICTED

Questions & Answers

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Q&A on FATIQ

1. What is FATIQ?

FATIQ is a desktop application dedicated to for fatigue life prediction analyses, based on FE results. It is an intuitive solution to set-up, solving and post-processing. It is a solver neutral application as it supports input from various FE solvers.

2. Why was FATIQ developed?

FATIQ comes to extend the FE simulation, for the structural behavior assessment, to the life prediction and failure risk of new products. Based on BETA CAE Systems expertise in CAE solutions FATIQ offers an easy to use, yet robust solution in the field.

3. Who should use FATIQ?

FATIQ has been developed for engineers and analysts, who work on new product development and need to accurately calculate the life time of their product, locate critical areas that could reduce product reliability, and subject their construction in failure risk.

4. Do I need a specific background to work with FATIQ?

The user should be familiar with the fatigue analysis theory. However, there is no need of keyword based experience as FATIQ provides a comprehensive workflow and an analysis set-up assistant.

5. What kind of fatigue analyses are covered from FATIQ?

FATIQ is capable for Stress-Life analysis in frequency and time domain. In frequency domain it is able to handle single or multiple – correlated PSDs as input.

6. What FE solver results can be used as input in FATIQ?

FATIQ can import and use FE results in NASTRAN, ABAQUS and ANSYS format, and any solver results incorporated into a METADB.

7. Do I need to install a special fatigue material database to work with FATIQ?

No. FATIQ provides a fatigue material database with more than 80 materials for metals and alloys according to the most well-known literature. Additionally, the user can define his own fatigue materials.

8. Can I install FATIQ independently of other BETA software (e.g. ANSA, META)?

Yes, FATIQ is installed and can operate independently of the other BETA products.

9. Which software is a prerequisite for FATIQ?

BETA License Manager (BETA_LM version 7.0 and above) should be up and running.

10. Do I need a special feature in the license file?

The required features are:

FATIQ and FATIQ_BATCH.

11. May I have an evaluation installation of FATIQ?

An evaluation installation is available for limited duration. During the evaluation period full support is provided by BETA CAE Systems.

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