
**BETA CAE Systems launches FATIQ,
the new comprehensive platform for streamlined fatigue analyses.**

Root, January 23, 2021

The analyses to assess the longevity of newly designed structures is increasingly becoming more important and more challenging, as complex designs and products with multiple materials are becoming a norm. Understanding the behavior of the future products under different loading conditions and comparing alternative designs and ideas is not an easy task, as numerous thorough simulations analyses through complicated software tools is required for this.

With the aim to reduce complexity of the prediction of the failure risk and the working life of mechanical engineering structures under cyclic loading, while keeping the levels of the quality of the results for such analyses, BETA CAE Systems has developed FATIQ.

FATIQ is a standalone software, a new part of the BETA CAE Systems suite, dedicated to facilitating fatigue life prediction. FATIQ makes the job easy for engineers of different levels of expertise, as it provides a stepwise workflow manager, a comprehensive tools portfolio to prepare models for multiple analyses and tasks, support of input from various solvers, and interactive post- processing capabilities.

Among its offerings, FATIQ provides the flexibility to define several analyses for a single model, in the same workflow, making it possible to run analyses with different parameters and compare results while same time minimizing input data and avoiding repeated tedious tasks. Moreover, FATIQ can also host multiple workflow tasks with different models in a single session. Its Loading assistant allows for the setup of many parallel serial events on a duty cycle with just few clicks. FATIQ, also, provides an internal database of more than 80 fatigue materials for metals and alloys according to the most well-known bibliography. The post processing of the results can be performed in an interactive process within FATIQ through dedicated plots such as, PSD plots, Event graphs, Rainflow matrices and 3D fringes.

FATIQ is available worldwide by BETA CAE Systems and its business partners.

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About BETA CAE Systems

BETA CAE Systems transformed engineering simulation by introducing revolutionary process automation software tools and practices into Simulation and Analysis, more than 30 years ago. Committed to our mission to enable engineers to deliver results of high value, we continue to offer state-of-the-art, high-performance software and best-in-class services to the Industry, around the world. Our simulation solutions unleash low-risk and high Return-On-Investment innovation. We first established our reputation in the Automotive sector and now we are proud of the deployment of our software also in the Aerospace, Defense, Biomechanics, Electronics, Energy and other Industries. The groundbreaking technology, the excellent services and our high standards of business values and ethics are the three pillars on which BETA was founded and grows since then.

For more information about FATIQ:

FATIQ Release Announcement: https://www.beta-cae.com/news/20230123_announcement_fatig.htm

DEEN web-page: <https://www.beta-cae.com/fatig.htm>

For more information about BETA CAE Systems:

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