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Endurica 2020 Durability Analysis Software Release

New analysis features, improved user experience, and execution speed improvements

Endurica LLC *(Findlay, Ohio, USA)* has published its 2020 software release. The software is used to simulate fatigue performance of elastomer components. It is used by material and product developers together with finite element analysis to rapidly understand and manage product durability. The new release provides licensed users with updates to all of Endurica's software products (CL, DT, and EIE). It includes new analysis and visualization capabilities, as well as execution speed enhancements.

The release includes a new tool, the Endurica Viewer. Endurica Viewer is now provided with the Endurica CL license. It provides a graphical, interactive visualization of analysis results, making it easier to diagnose and optimize fatigue performance. Endurica CL also features new tools for dealing with lengthy load signals. New capabilities include a signal defeaturing tool for removing non-damaging load history segments from further analysis, and a new binary file format that reduces file size and read time. Also, interfaces to the latest releases of the popular finite element codes Abaqus, Ansys and MSC/Marc are included. The Endurica DT solver now features a new damage extrapolation capability. After accumulating damage from all load cases in a block cycle schedule, the extrapolation feature calculates the number repeats of the entire schedule that can be endured. The Endurica EIE nonlinear load mapping tool now also supports multi-threading and the binary file format. In one benchmark, it gave a speed advantage of more than 10000 times over the direct finite element solution method.

Endurica founder and president Will Mars gave the following statement about the 2020 release. "We are continuing to invest strongly in the Endurica tools. Our user base has been expanding to include a wider range of user background and experience. So our workflows have evolved towards greater simplicity, greater interactivity and greater flexibility. At the same time, our most experienced users are running jobs with growing scope and complexity. Our 2020 release is our most polished and capable yet, and it will delight the users. Expect to see full road loads being used to design rubber parts on a routine basis. Expect to see more product development programs that get durability right the first time. Expect to see more light weighting and sustainable materials programs completed successfully."

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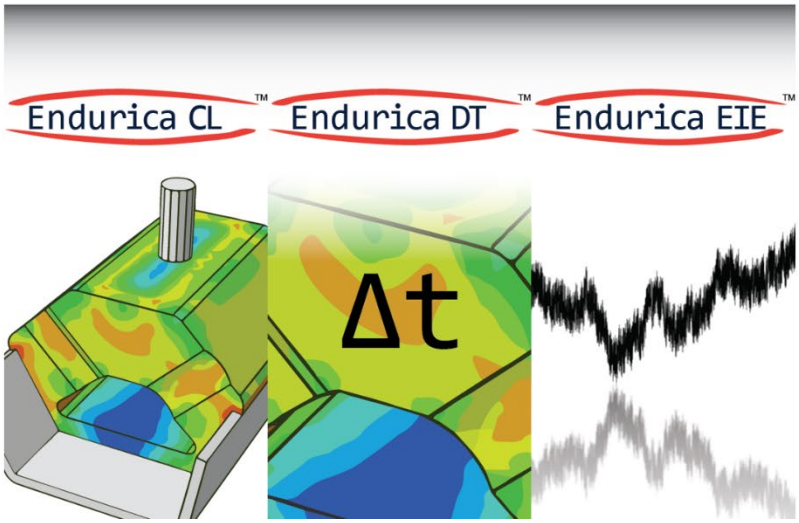

Endurica software is used to predict fatigue life under complex loading.

Endurica LLC provides pre-prototype solutions for developers seeking durability in elastomer applications. Endurica is focused on durability of elastomers and developed the world's first numerical fatigue life solver for elastomers. Endurica's solver is used to predict fatigue life based on the results of Finite Element Analysis. Solutions provided by Endurica LLC include software, characterization services, testing instruments, and training for engineers and analysts.