

# Ncode designlife manual pdf

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” before you even have a prototype. Using the results of finite element analysis (FEA) from Ansys Mechanical and Ansys LS-DYNA, it accumulates damage from repetitive loading to determine a product’s predicted life. Go beyond simplified stress analysis and avoid under or over-designing your products by DesignLife provides methods to intelligently identify weld lines in the FE model, thus simplifying the process of setting up the fatigue job. The approach is appropriate for weld toe, root and throat failures nCode DesignLife features advanced capabilities to rapidly deliver accurate fatigue life predictions Code DesignLife™ 8Product Overview:nCode DesignLife provides fatigue life prediction from finite element results to answer the question “how long will it last?” or “will it pass the test. General material data for seam welds for both bending and tension conditions are supplied with the software. You can quickly evaluate the effects of different materials and alternative CAE Solution for Fatigue Life Prediction from Finite Element Models. nCode DesignLife by HBK is an up-front design tool that identifies critical locations and calculates realistic fatigue lives from leading FE results for both metals and composites nCode DesignLife is the next generation CAE fatigue and durability analysis tool that works with all leading FE codes and produces realistic predictions of fatigue hotspots This course provides an introduction to the capabilities of Ansys nCode DesignLife that are included with a standard license. It covers the basics of using Ansys Mechanical with nCode DesignLife is a CAE-based fatigue analysis system that contains a comprehensive set of solvers and advanced methods for predicting structural durability ANSYS nCode DesignLife software makes it possible to: Perform virtual durability assessment up front to reduce reliance on physical testing and avoid costly design and • nCode DesignLife can be used to perform vibration fatigue analysis on results from many FEA tools •The vibration loads can be single or multiple and can be described as: •Random PSDs •Sine on random •Sine sweeps •Sine dwells •Fatigue methodology includes both Stress-Life and Strain-Life Ansys nCode DesignLife works with Ansys Mechanical to reliably evaluate fatigue life. nCode DesignLife is an up-front design tool that identifies critical locations and calculates realistic fatigue lives from leading FE results for both metals and composites.

 Difficulté Moyen

 Durée 731 jour(s)

 Catégories Mobilier, Maison, Musique & Sons

 Coût 323 USD (\$)

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Étape 1 -

Commentaires

Matériaux

Outils

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Étape 1 -

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