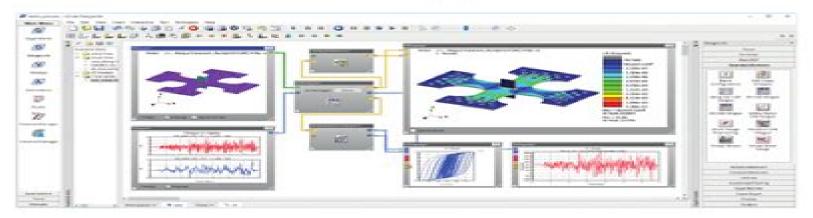




PRODUCT DETAILS

Fatigue Life Prediction and Test-CAE Correlation

nCode DesignLife is a CAE-based fatigue analysis system that contains a comprehensive set of solvers and advanced methods for predicting structural durability from major finite element analysis (FEA) result files.



BENEFITS

- Reduce reliance on physical tests and avoid costly design and tooling changes
- Perform smarter and quicker physical tests by simulating first.
- Decrease warranty claims by reducing failures
- Reduce cost and weight by assessing more design options
- Improve consistency and quality with standardized analysis processes and reporting



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British Waterways, Rugby (GB). Water Environment Services

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The Multi Material Lightweight Vehicle (MMLV) Project David Wagner, Jeff L Conklin, Matthew Zaluzec, Timothy W Skszek, 2015-06-05 The desire for greater fuel efficiency and reduced emissions have accelerated a shift from traditional materials to design solutions that more closely match materials and their properties with key applications The Multi Material Lightweight Vehicle MMLV Project presents cutting edge engineering that meets future challenges in a concept vehicle with weight and life cycle assessment savings These results significantly contribute to achieving fuel reduction and to meeting future Corporate Average Fuel Economy CAF regulations without compromising vehicle performance or occupant safety The MMLV Project presents Lightweight materials applications Body in white design and computer aided engineering Engine and transmission design and lightweighting Full vehicle test results that are specific to the MMLV subsystems including crash corrosion durability and Noise Vibration and Harshness NVH The Life Cycle Analysis LCA for the MMLV The aluminum intensive structure combined with carbon fiber magnesium and titanium results in full vehicle mass reduction of a C D class family sedan to that of a subcompact B car two vehicle segments lighter The MMLV Project presents engineering solutions that frame materials selection and applications for the future **Advances in Engineering Design and Simulation** Chenfeng Li, U. Chandrasekhar, Godfrey Onwubolu, 2019-10-03 This book consists of selected peer reviewed papers presented at the NAFEMS India Regional Conference NIRC 2018 It covers current topics related to advances in computer aided design and manufacturing The book focuses on the latest developments in engineering modelling and simulation and its application to various complex engineering systems Finite element method finite element analysis computational fluid dynamics and additive manufacturing are some of the key topics covered in this book. The book aims to provide a better understanding of contemporary product design and analyses and hence will be useful for researchers academicians and professionals

e-Design Kuang-Hua Chang,2016-02-23 e Design Computer Aided Engineering Design Revised First Edition is the first book to integrate a discussion of computer design tools throughout the design process Through the use of this book the reader will understand basic design principles and all digital design paradigms the CAD CAE CAM tools available for various design related tasks how to put an integrated system together to conduct All Digital Design ADD industrial practices in employing ADD and tools for product development Comprehensive coverage of essential elements for understanding and practicing the e Design paradigm in support of product design including design method and process and computer based tools and technology Part I Product Design Modeling discusses virtual mockup of the product created in the CAD environment including not only solid modeling and assembly theories but also the critical design parameterization that converts the product solid model into parametric representation enabling the search for better design alternatives Part II Product Performance Evaluation focuses on applying CAE technologies and software tools to support evaluation of product performance including structural analysis fatigue and fracture rigid body kinematics and dynamics and failure probability

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