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concepts behind FEA were developed in the early 1940 ' s, but the method became more mainstream in the 1980 ' s and 90 ' s when it was implemented on desktop computers.

An enhanced finite element macro-model for the realistic ...

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C. Muyan and D. Coker: Finite element simulations for investigating the strength characteristics 1341 Figure 1. Blade assembly for the 5m RÜZGEM turbine blade (Philippidis and Roukis, 2013). sive failure analysis is necessary to capture a more realistic simulation of failure mechanisms



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prior to testing.

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finite element method. Because of the temperature dependence of the electrical conductivity (4), the whole simulation has to be repeated in a loop until an equilibrium is

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established. Triangular and tetrahedral grid elements can be used for two- and three-dimensional simulations. The calculations can be performed with

STAP - A FINITE ELEMENT SIMULATOR  
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the Time-Domain Finite-Element  
Method for Electromagnetic  
Simulations Dan Jiao, Member, IEEE,  
and Jian-Ming Jin, Fellow, IEEE  
Abstract— This paper presents a  
general approach for the sta-bility  
analysis of the time-domain finite-  
element method (TDFEM) for

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electromagnetic simulations. Derived from the discrete system

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Abstract – Finite element macro-modelling approaches are widely used for the analysis of large-scale masonry structures. Despite their efficiency, they still face two important challenges: the realistic

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representation of damage and a reasonable independen-cy of the numerical results to the used discretization. In this work, the classical ...

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Teregowda): In this paper, the real  
geometries of cathode particles are  
reconstructed using atomic force

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microscopy (AFM). Finite element analysis of intercalation-induced stress is applied to the reconstructed realistic geometries of single and aggregated particles. The reconstructed particle geometry shows rugged surfaces at ...



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example, suppose an impact analysis  
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scale simulations and measure the  
computational progress of the  
application development and  
exascale ...

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The extended finite element method (XFEM) is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM). It extends the classical finite element method by enriching the solution space for solutions to differential

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The finite element analysis of welding has been an active area of research for more than four decades, which is a

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very good basis for AM considering a number of similarities between these processes (Lindgren, 2006). In AM, several models have been built to study the stress fields induced by thermal gradients and significant progress has been ...

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(Finite Element Anal ysis) By : ... and  
previous numerical simulations ... The  
main objective of this paper is to  
perform a comparative Finite Element  
Analysis(FEA) of the mechanical  
behaviour of ...

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Finite Element modeling in image  
guided diagnosis and ther-apy. The  
ability to tessellate a medical image  
of multiple tissues into tetrahedra  
enables Finite Element (FE) Anal-ysis



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on patient-specific models [6,38]. This has significant implications in many areas, such as imaged-guided therapy,

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Finite Element Anal ysis (FEA) has emerged to an important tool 2)

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Intermediate conclusion y( ) g p-to evaluate pulsed-magnetic field techniques which are a technology platform for modern research (and novel industrial innovations) -Thanks to the multiphysics, COMSOL offers many features to simulate the

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The technique presents a pathway to drastically increase the computational efficiency of complex random finite element simulations while also comparing and predicting random field characteristics, and their

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impact on slope failure mechanisms. Although two-dimensional numerical slope simulation has been considered in this case, further attention ...

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